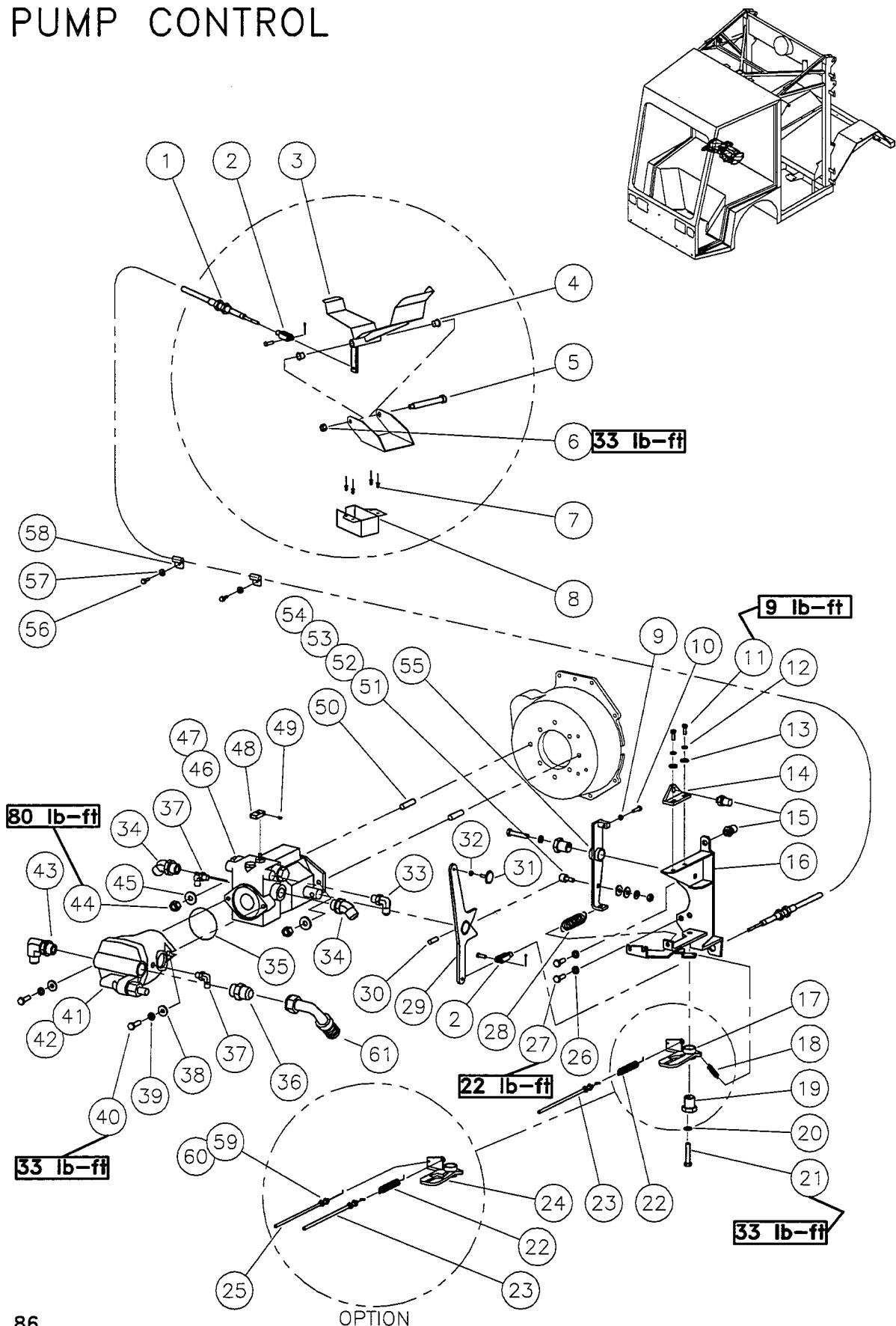


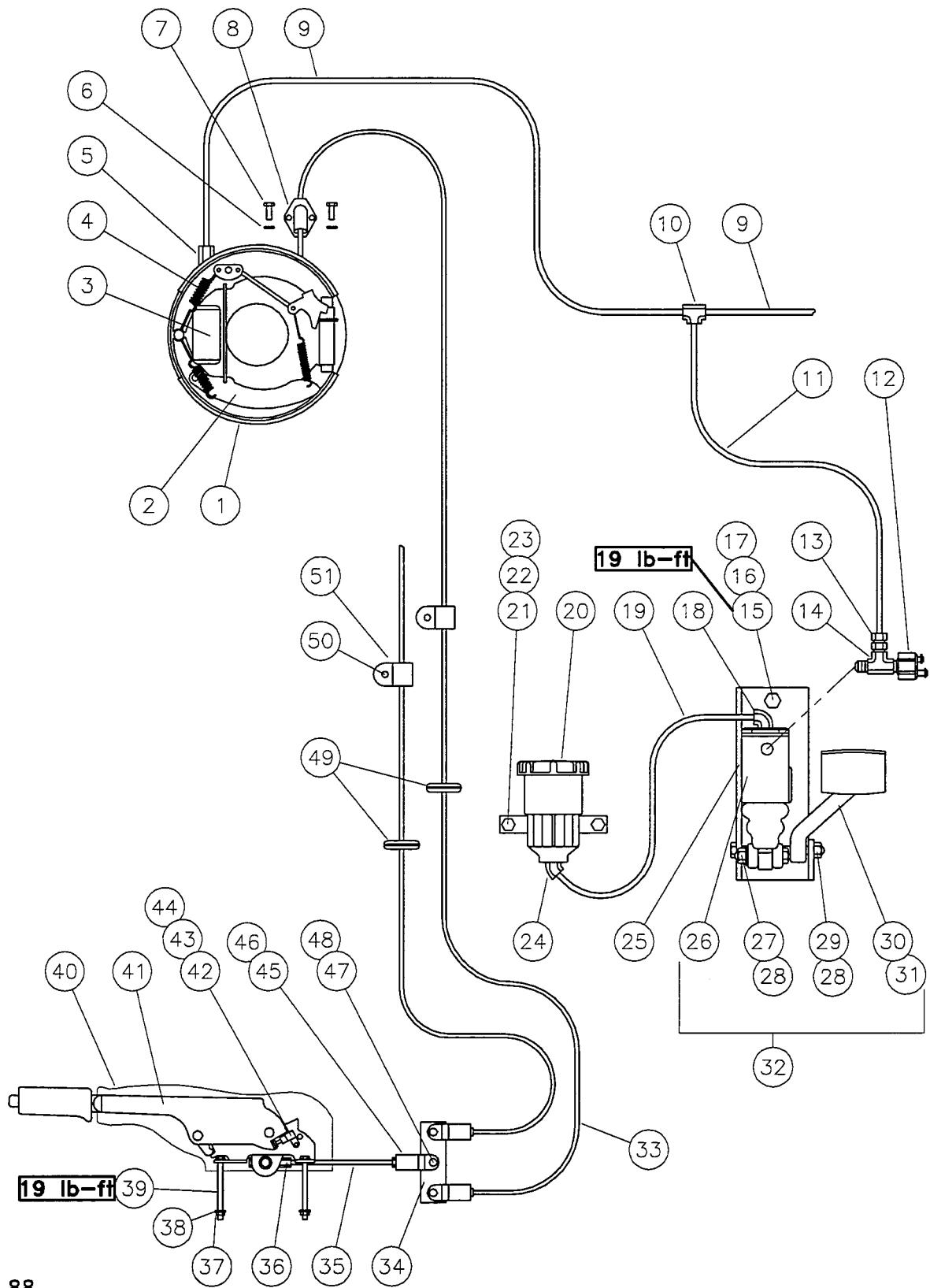
ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	21416	Hydraulic Manifold support	1
2		Washer Dia. 1/4"	4
3		Lock nut 1/4"-20 UNC	2
4		Washer Dia. 5/16"	6
5		Lock washer Dia. 5/16"	6
6		Jam nut 5/16"-18 UNC	6
7		Lock nut 1/4"-20 UNC	8
8		Screw hex. head 1/4"-20 UNC X 1/2" Lg	2
9		Lock washer Dia. 1/4"	2
10	27058	Rubber mount	4
11	21769	Hyd manifold mounting bracket	1
12	24219	Mounting kit, arm	1
13	24227	Mounting kit, container	1
14		Screw hex. head 1/4"-20 UNC X 3/4" Lg	8
15		Screw hex. head 1/4"-20 UNC X 2" Lg	2
16	21718	Arm hydraulic hose support	1
17		Screw hex. head 1/4"-20 UNC X 3/4" lg	2
18		Lock nut 1/4"-20 UNC	2

# PUMP CONTROL



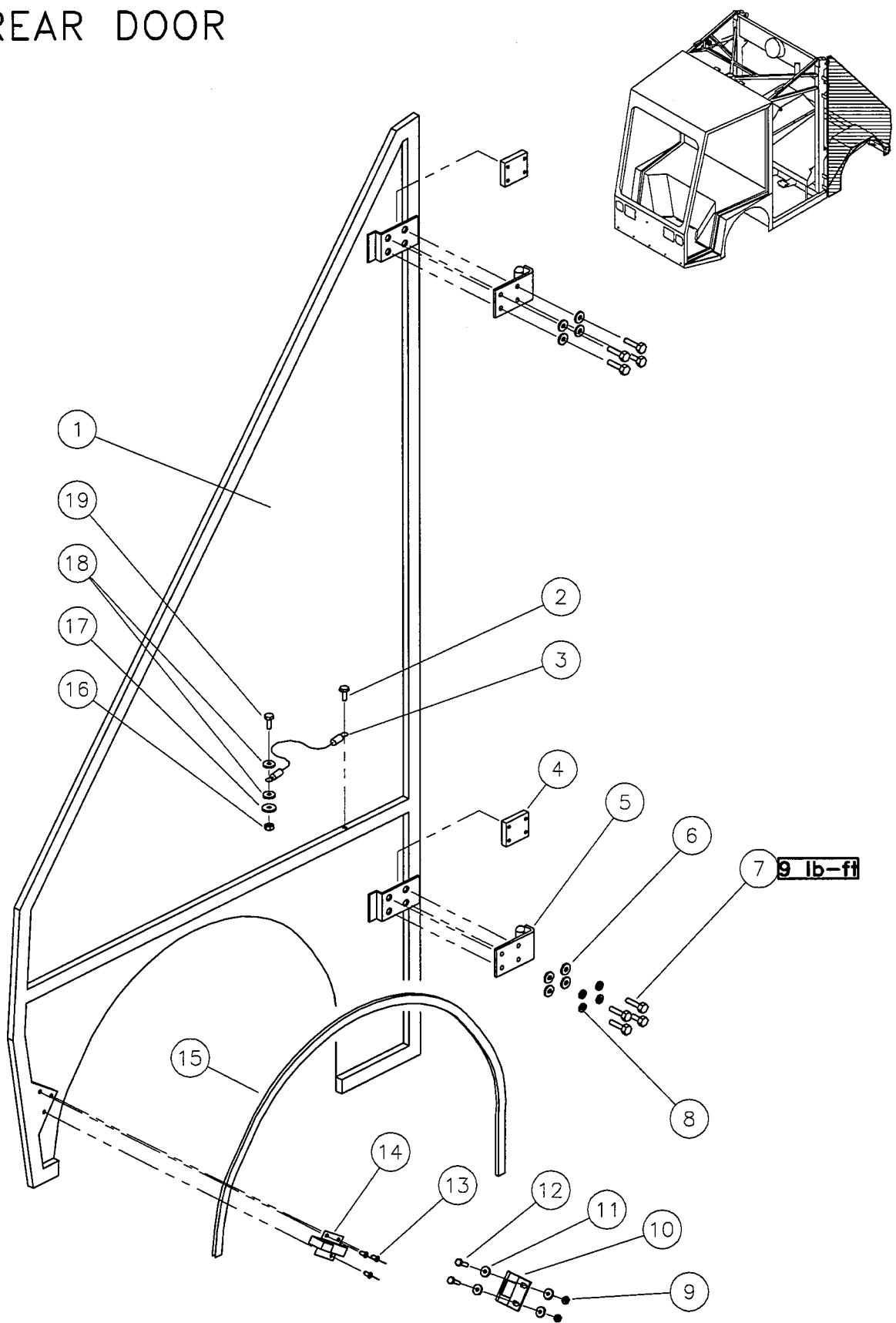
ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	28577	Traction cable	1
2	28281	Traction clevis	2
3	28001	Traction pedal	1
4	28214	Traction pedal bearing	2
5	28311	Traction pedal pivot, TORQUE: 33 lb-ft	1
6		Locknut 3/8"-16 UNC	1
7		Pop rivet	4
8	21058	Traction pedal cover	1
9		Jam nut 1/4"-20 UNC	1
10		Screw hex. head 1/4"-20 UNC X 1 1/4" Lg	1
11		Screw hex. head 1/4"-20 UNC X 3/4" Lg, TORQUE: 9 lb-ft	2
12		Lock washer Dia. 1/4"	2
13		Washer Dia 1/4"	2
14	28480	Back-up switch bracket	1
15	26062	Back-up & neutral switch	2
16	28496	Control bracket	1
17	28569	2 pos. transmission shifter plate	1
18	7322	Shifter spring	1
19	28437	Pump lever adjustment bushing	2
20		Lock washer Dia. 3/8"	2
21		Screw hex. head 3/8"-16 UNC X 2" Lg, TORQUE: 33 lb-ft	1
22	28526	Transmission shifter spring	1
23	28534	Transmission brake cable	1
24	28518	3 pos. transmission shifter plate (option)	1
25	28561	Shift cable (option)	1
26		Lockwasher Dia. 3/8"	3
27		Screw hex. head 3/8"-16 UNC X 1" Lg, TORQUE: 22 lb-ft	3
28	28593	Pump lever spring	1
29	28445	Pump lever 231	1
30	28338	Spring pin	1
31	28488	Back-up adjustment screw	1
32		Jam nut 1/4"-20 UNC	1
33	4439	Fitting 90	1
34	25004	Fitting 45	2
35	5036	O'ring-pump	1
36	25039	Fitting	1
37	4420	Fitting 90	2
38		Washer Dia. 3/8"	2
39		Lock washer Dia. 3/8"	2
40		Screw hex head 3/8"-16 X 1 1/2" Lg, TORQUE: 33 lb-ft	2
41	25010	Pressure comp. piston pump	1
42	25082	Seal kit hydraulic pump	
43	4390	Fitting 90	1
44		Locknut 1/2-13 UNC, TORQUE: 80 lb-ft	2
45		Washer dia. 1/2"	2
46	25002	Hydrostatic pump	1
47	25063	Seal kit hydrostatic pump	
48	28585	Neutral lever	1
49		Screw hex. socket, cup point 1/4"-20 UNC X 1/4" Lg	1
50	28346	Stud	2
51	7527	Cam follower	1
52		Jam nut 3/8"-24 UNF	1
53		Lock washer dia. 3/8"	1
54		Washer dia. 3/8"	2
55	28472	Cam lever	1
56		Srew self tap hex. head 1/4"-20 UNC X 3/4" Lg	2
57		Washer Dia. 1/4"	2
58	27668	Clamp 6	2
59		Jam nut 5/16-24 UNF	2
60		Lock washer serrated 5/16	2
61	24553	Fitting 90	1

# BRAKING SYSTEM



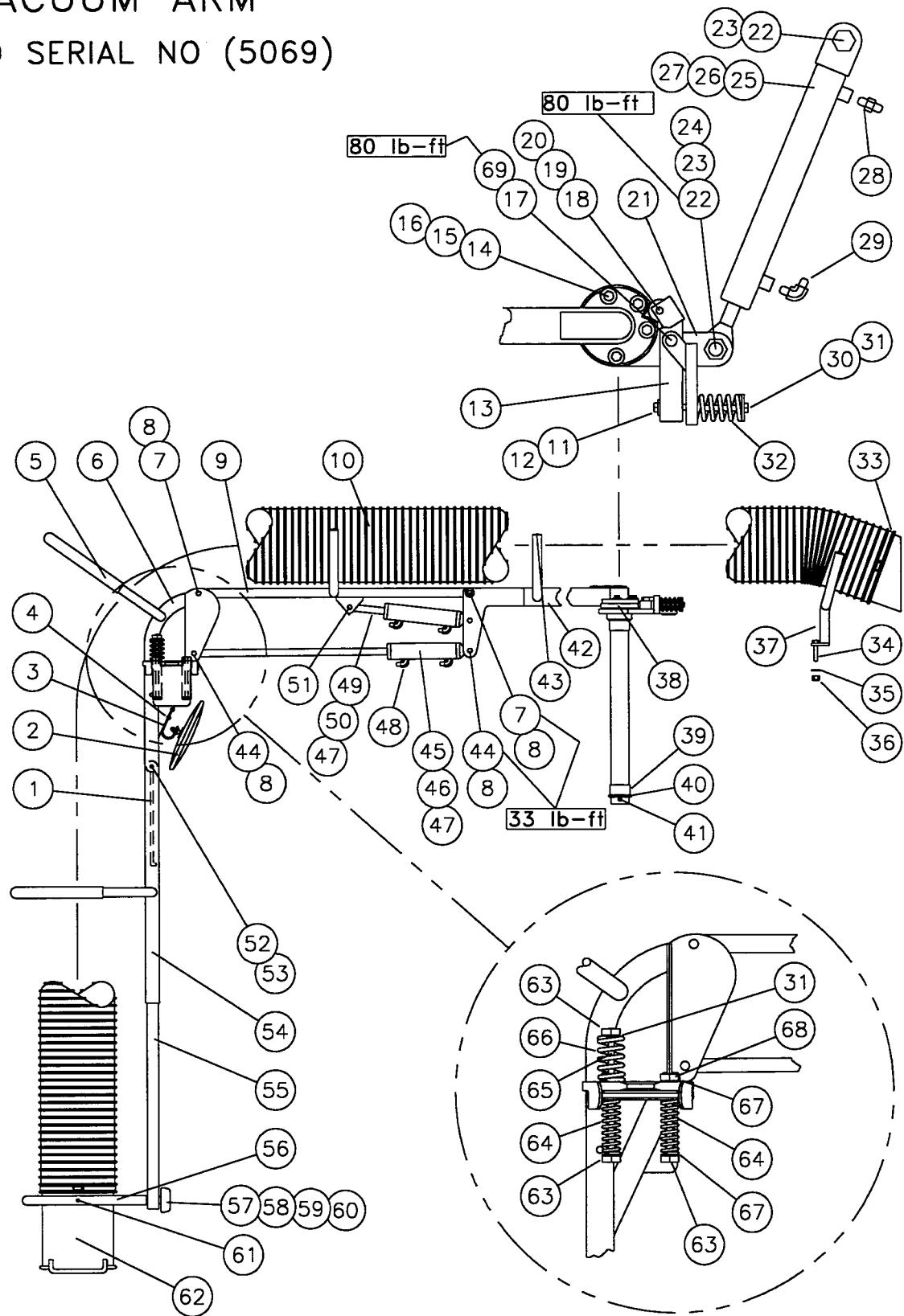
ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	27048	Brakes L/H	1
	27056	Brakes R/H	1
2	28028	Brake pads replacement kit	
3	28036	Brake piston replacement kit	
4	27471	Spring kit	1
5	25371	Fitting	2
6		Lock washer Dia. 8mm	4
7		Screw hex. head M8-20 mm	4
8	28097	Brake cable support	2
9	24900-M	Hose assembly	2
10	25373	Fitting T	1
11	24922-M	Hose assembly	1
12	26408	Brake light switch	1
13	4242	Fitting	1
14	25392	Fitting T	1
15		Screw hex. head 5/16"-18 UNC X 1" Lg, TORQUE: 19 lb-ft	2
16		Washer Dia. 5/16"	2
17		Lock nut 5/16"-18 UNC	2
18	25398	Fitting 90	1
19	24930-M	Hose assembly	1
20	28257	Brake fluid reservoir	1
21		Screw hex. head 1/4"-20 UNC X 1/2" Lg	2
22		Lock washer Dia. 1/4"	2
23		Washer Dia. 1/4"	2
24	4463	Fitting 45	1
25	28348	Brake pedal mounting plate	1
26	28230	Seal kit brake pedal	
27		Screw hex. head 3/8"-24 UNF X 2 1/4" Lg	1
28		Lock nut 3/8"-24 UNF	2
29		Screw hex. head 3/8"-24 UNF X 4" Lg	1
30	28249	Brake pedal lever and piston	1
31	27473	Brake pedal cover	1
32	28222	Brake pedal assembly	1
33	28510	Hand brake cable	2
34	28089	Brake cable equalizer	1
35	21998	Hand brake threaded rod	1
36	27492	Coupling nut	2
37		Lock nut 5/16"-18 UNC	2
38		Washer Dia. 5/16"	4
39		Screw Hex. head 5/16"-18 UNC X 2 3/4" Lg, TORQUE: 19 lb-ft	2
40	28125	Hand brake cover	1
41	27498	Hand brake ratchet lever	1
42	26068	Hand brake switch	1
43		Screw hex. head 10-32 UNF X 3/4" Lg	1
44		Lock nut 10-32 UNF	1
45	27500	Clevis	1
46		Jam nut 5/16"-18 UNC	2
47	27501	Clevis pin dia. 3/8" X 7/8" Lg	3
48		Cutter pin	3
49	27597	Grommet	2
50		Pop rivet	2
51	27688	Clamp 6	2

## REAR DOOR



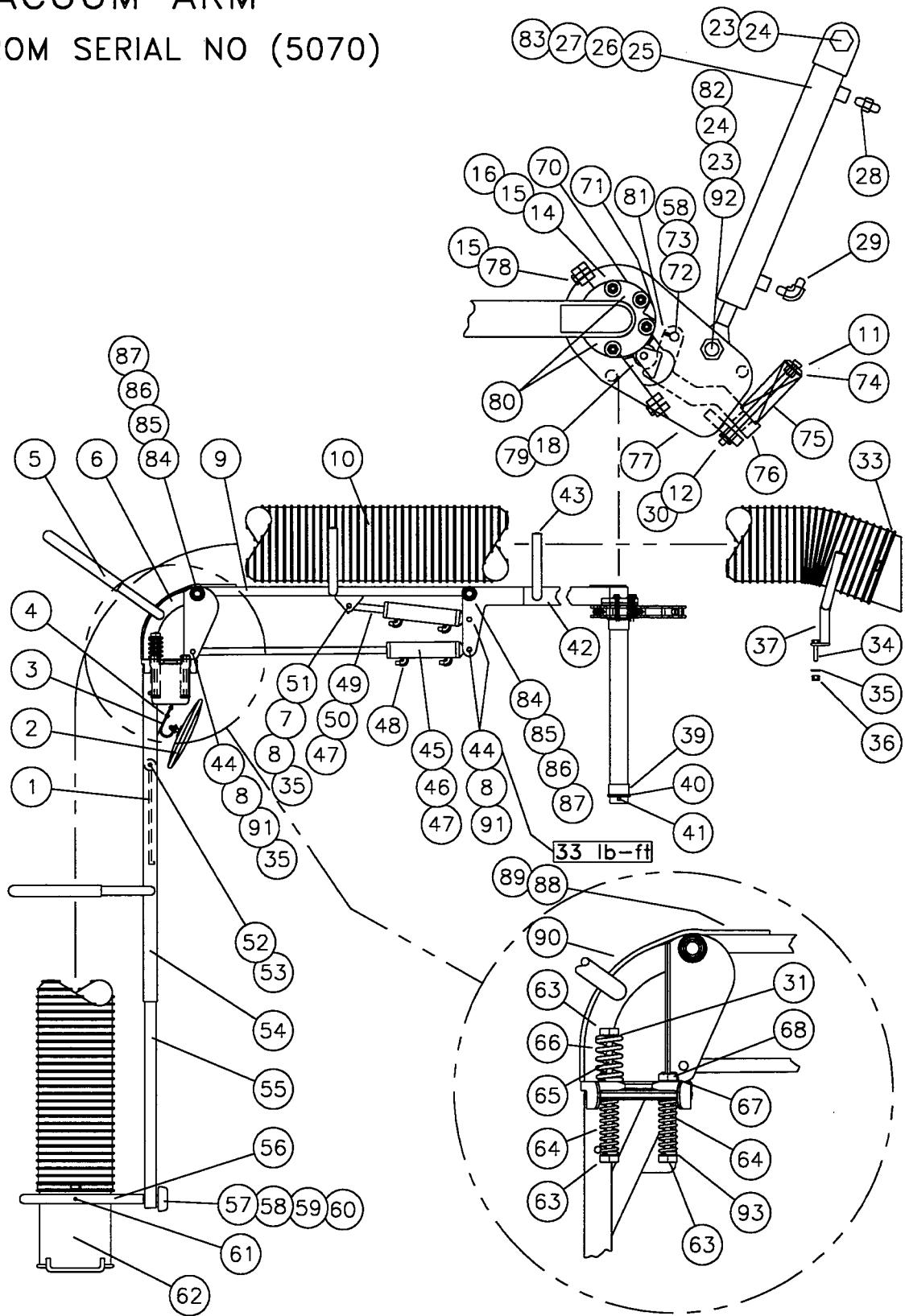
ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	21291	Rear door Left	1
	21290	Rear door Right	1
2		Screw self tap hex. head 1/4"-20 UNC X 3/4"	2
3	21548	Rear door retaining cable	2
4	21734	Hinge back plate	4
5	21728	Engine door hinge L	2
	21726	Engine door hinge R	2
6		Washer Dia. 1/4"	16
7		Screw hex. head 1/4"-20 UNC X 3/4" Lg, TORQUE: 9 lb-ft	16
8		Lock washer Dia. 1/4"	16
9		Lock nut 1/4"-20 UNC	4
10	21311	Rear door Strike	2
11		Washer Dia. 1/4"	8
12		Screw hex. head 1/4"-20 UNC X 3/4" Lg	4
13		Pop rivet	6
14	28079	Latch rear door pannel	2
15	27675	Trim, rear door	2
16		Lock nut 1/4"-20 UNC	2
17		Washer Dia. 1/4"	2
18		Washer Dia. 1/4"	4
19		Screw hex. head 1/4"-20 UNC X 3/4" Lg	2

VACUUM ARM  
TO SERIAL NO (5069)



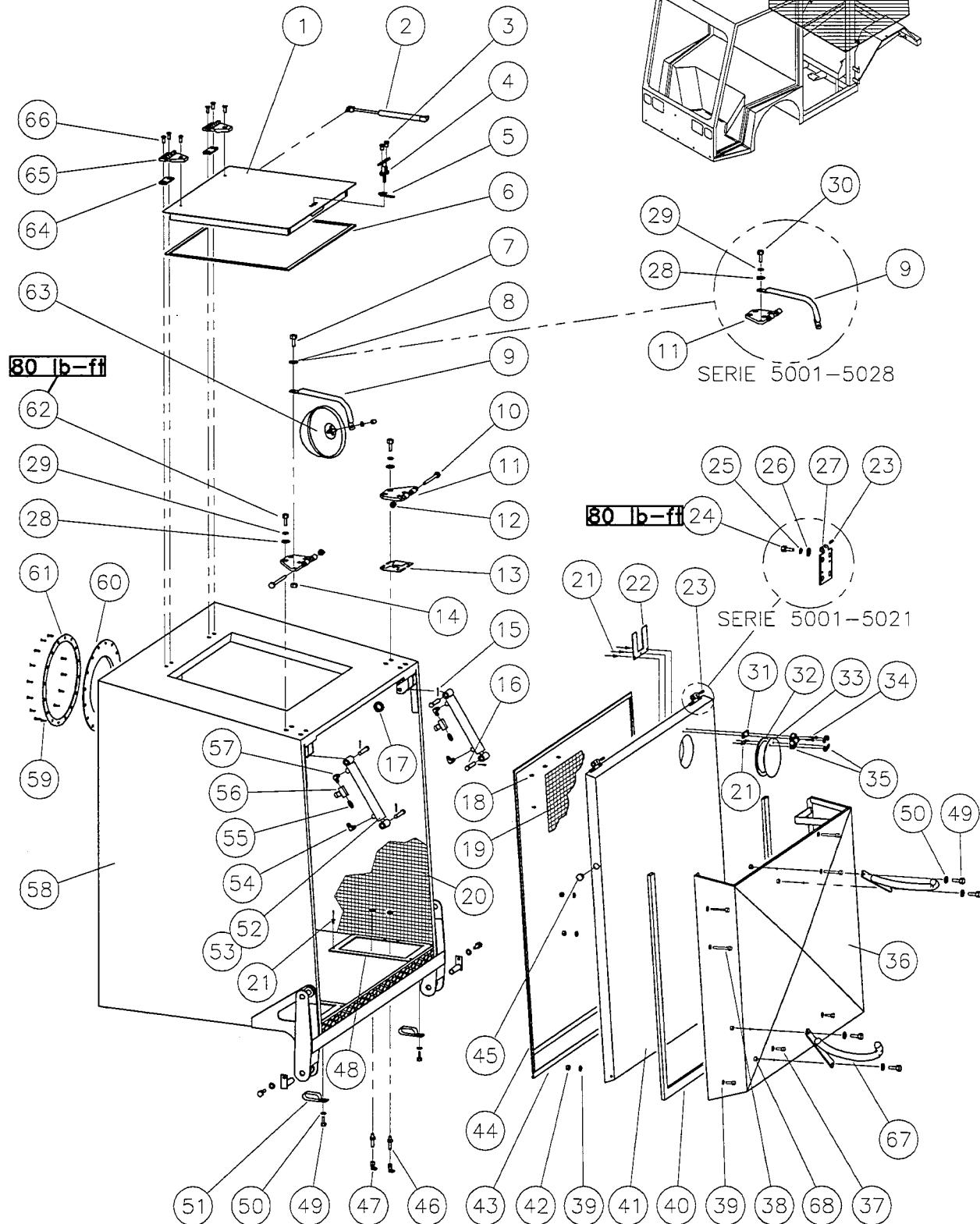
ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	23691	Sliding tube stroke stopper	1
2	29024	Mirror head convex	1
3	23214	Arm mirror support	1
4		Screw self tap hex. head 1/4"-20 UNC X 3/4" Lg	2
5	27137	Hose clear vinyl	2
6	23745	Lower arm elbow	1
7	29229	Screw shoulder 1/2" X 3" Lg 3/8"-16 UNC, TORQUE: 33 lb-ft	2
8		Lock nut 3/8"- 16 UNC	6
9	23907	Intermediate arm	1
10	27050	Hose 8" clear	1
	27190	Hose 8" heavy duty (option)	
11		Screw hex. head 5/16"-18 UNC X 6" Lg	1
12	27643	Washer self aligning	1
13	23721	Arm lever	1
14		Screw hex. head 5/16"-18 UNC X 1 1/4" Lg, TORQUE: 19 lb-ft	4
15		Lock washer Dia. 5/16"	4
16		Washer Dia. 5/16"	4
17	27503	Screw shoulder 5/8" X 1 1/4" Lg 1/2"-13 UNC, TORQUE: 80 lb-ft	1
18	28302	Cam follower	1
19		Screw hex. head 3/8"-16 UNC X 2" Lg	1
20		Lock nut 3/8-16 UNC	1
21	23729	Arm rotation lever II	1
22		Screw hex. head 3/4"-10 UNC X 2 1/2" Lg, TORQUE: 80 lb-ft	2
23		Lock nut 3/4"-10 UNC	2
24		Washer Dia. 3/4"	1
25	5184	Arm cylinder R/L	1
26	5338	Seal kit arm cylinder R/L	
27	27465	Spherical ball bushing	2
28	25586	Fitting	1
29	4382	Fitting 90	1
30		Lock nut 5/16"-18 UNC	1
31	23379	Spring locator	3
32	28362	Spring cam lever	1
33	8507	Clamp	2
34		Screw hex. head 3/8"-16 UNC X 2" Lg	2
35		Washer Dia. 3/8"	2
36		Lock nut 3/8"-16 UNC	2
37	21033	Hose support	1
38	23861	Main arm rotation cam	1
39	23559	Bushing post	3
40	23753	Arm pivot washer	1
41	27536	Spring pin 3/8" X 2 1/2" Lg	1
42	23346	Main Arm	1
43	27546	Tubing plug	8
44	27751	Screw shoulder 1/2" X 2 1/2" Lg 3/8"-16 UNC, TORQUE: 33 lb-ft	4
45	24865	Arm cylinder F/B	1
46	5338	Seal kit arm cylinder F/B	
47	27749	Spherical ball bushing	4
48	4463	Fitting 45	4
49	24857	Arm cylinder U/D	1
50	5338	Seal kit arm cylinder U/D	
51	28170	Arm cylinder spacer	8
52	27538	Clevis pin 5/16" X 2" Lg	1
53	27544	Hitch pin clip	1
54	23737	Lower arm	1
55	23602	Sliding Tube	1
56	23605	Inlet Holder	1
57		Screw hex head 1/2"-13 UNC X 4 1/2" Lg	1
58		Washer Dia. 1/2"	1
59		Locknut 1/2"-13 UNC	1
60	7683	Rubber bumper	1
61		Screw hex. head 5/16"-18 UNC X 3/4" Lg	2
62	23419	Inlet	1
63		Locknut 5/16"-18 UNC	6
64	28133	Spring lower arm	4
65	23387	Rod 5/16"-18 UNC X 7 1/4" Lg	2
66	28141	Spring lower arm elbow	2
67		Washer	6
68		Screw hex head 5/16-18 UNC X 4 1/2" Lg	2
69		Jam nut 1/2-13 UNC	1

VACUUM ARM  
FROM SERIAL NO (5070)



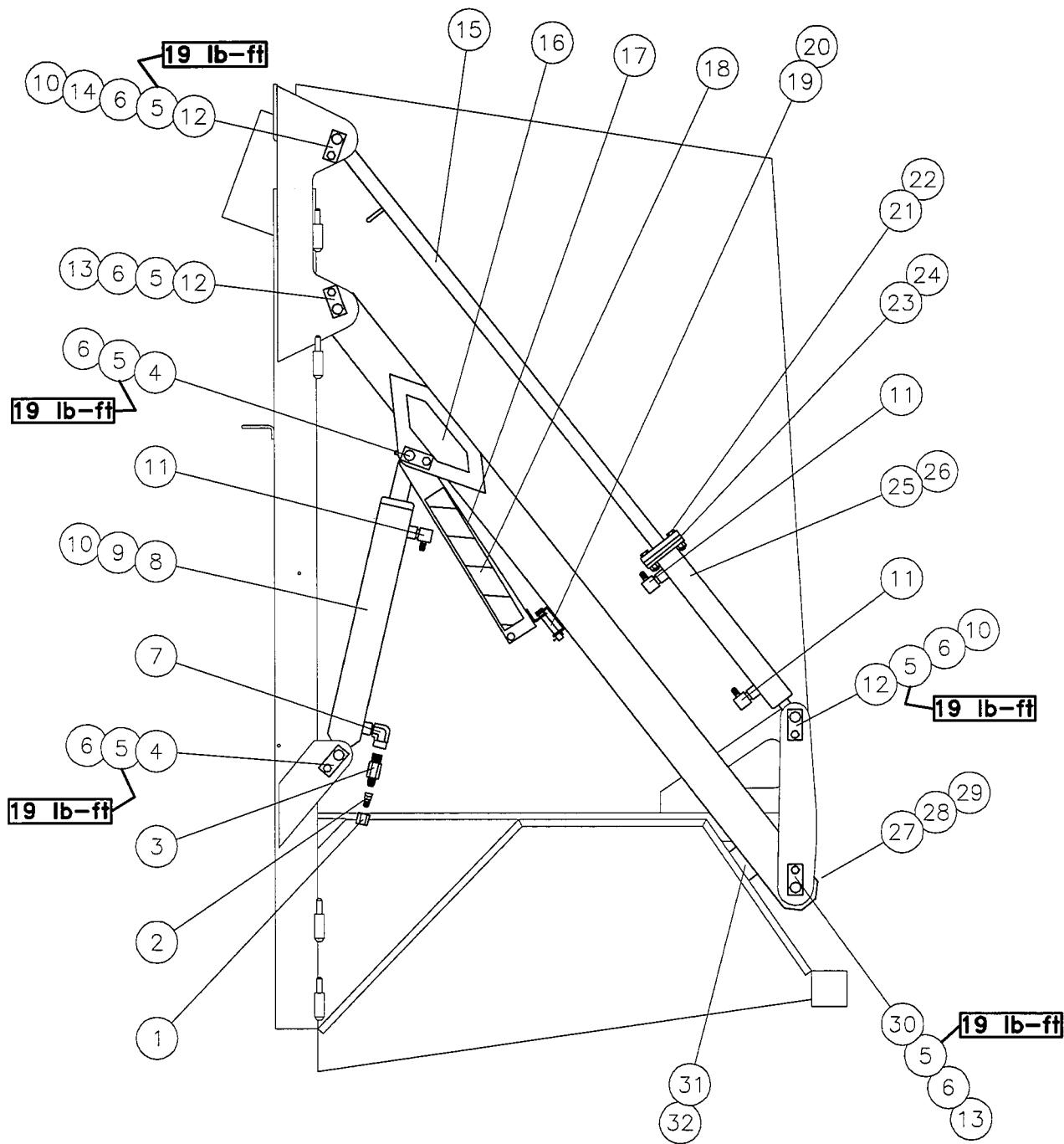
ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	23691	Sliding tube stroke stopper	1
2	29024	Mirror head convex	1
3	23214	Arm mirror support	1
4		Screw self tap hex. head 1/4"-20 UNC X 3/4" Lg	2
5	27137	Hose keeper	2
6	23745	Lower arm elbow	1
7	29229	Screw shoulder 1/2" X 2" Lg 3/8"-16 UNC, TORQUE: 33 lb-ft	1
8		Lock nut 3/8" 16 UNC	4
9	23907	Intermediate arm	1
10	27050	Hose 8" clear	1
	27190	Hose 8" heavy duty (option)	1
11		Screw hex. head 5/16"-18 UNC X 6" Lg	1
12	27643	Washer self aligning	1
14		Screw hex. head 5/16"-18 UNC X 2" Lg, TORQUE: 19 lb-ft	4
15		Lock washer Dia. 5/16"	6
16		Washer Dia. 5/16"	4
18	28302	Cam follower	1
23		Lock nut 3/4"-10 UNC	2
24		Washer Dia. 3/4"	1
25	5184	Arm cylinder R/L	1
26	5338	Seal kit arm cylinder R/L	1
27	27465	Spherical ball bushing	2
28	25586	Fitting	1
29	4382	Fitting 90	1
30		Lock nut 5/16"-18 UNC	1
31	23379	Spring locator	2
33	8507	Clamp	2
34		Screw hex. head 3/8"-16 UNC X 2" Lg	2
35		Washer Dia. 3/8"	4
36		Lock nut 3/8"-16 UNC	2
37	21033	Hose support	1
39	23559	Bushing post	2
40	23753	Arm pivot washer	1
41	27536	Spring pin 3/8" X 2 1/2" Lg	1
42	23346	Main Arm	1
43	27546	Tubing plug	8
44	27751	Screw shoulder 1/2" X 2 1/2" Lg 3/8"-16 UNC, TORQUE: 33 lb-ft	3
45	24865	Arm cylinder F/B	1
46	5338	Seal kit arm cylinder F/B	1
47	27749	Spherical ball bushing	4
48	4463	Fitting 45°	4
49	24857	Arm cylinder U/D	1
50	5338	Seal kit arm cylinder U/D	1
51	28170-2	Arm cylinder spacer	2
52	27538	Clevis pin 5/16" X 2" Lg	1
53	27544	Hitch pin clip	1
54	23737	Lower arm	1
55	23602	Sliding Tube	1
56	23605	Inlet Holder	1
57		Screw hex head 1/2"-13 UNC X 4 1/2" Lg	1
58		Washer Dia. 1/2"	3
59		Locknut 1/2"-13 UNC	1
60	7683	Rubber bumper	1
61		Screw hex. head 5/16"-18 UNC X 3/4" Lg	2
62	23419	Inlet	1
63		Locknut 5/16"-18 UNC	6
64	28133	Spring lower arm	4
65	23387	Rod 5/16"-18 UNC X 7 1/4" Lg	2
66	28141	Spring lower arm elbow	2
67		Washer Dia. 5/16"	6
68		Screw hex head 5/16-18 UNC X 4 1/2" Lg	2
70	23611	Cam	1
71	23603	Cam spacer	1
72	23727	Car roller lever pivot	1
73		Cotter pin dia 1/8"	1
74	23638	Spring locator	1
75	28591	Spring cam lever	1
76	23654	Cam roller lever ass'y	1
77	23662	Arm rotation lever III	1
78		Screw hex head 5/16-18 UNC X 1" Lg	2
79	23646	Roller axle	1
80		Grease fitting	2
81		Grease fitting 90°	1
82		Washer dia 3/4 CC	2
83	23689	Cylinder rod stopper	1
84	23565	Main arm axle	2
85		Main arm spherical bearing	4
86	23573	Spherical bearing shield	4
87		Spring pin 1/8" x 1 1/2"	4
88		Pop rivet 3/16" x 1/2"	2
89		Washer #10	2
90	23506	Lower arm elbow mat	1
91	28170-1	Arm cylinder spacer	6
92	23719	Cylinder bolt	1
93	23492	Spring locator	4

# CONTAINER



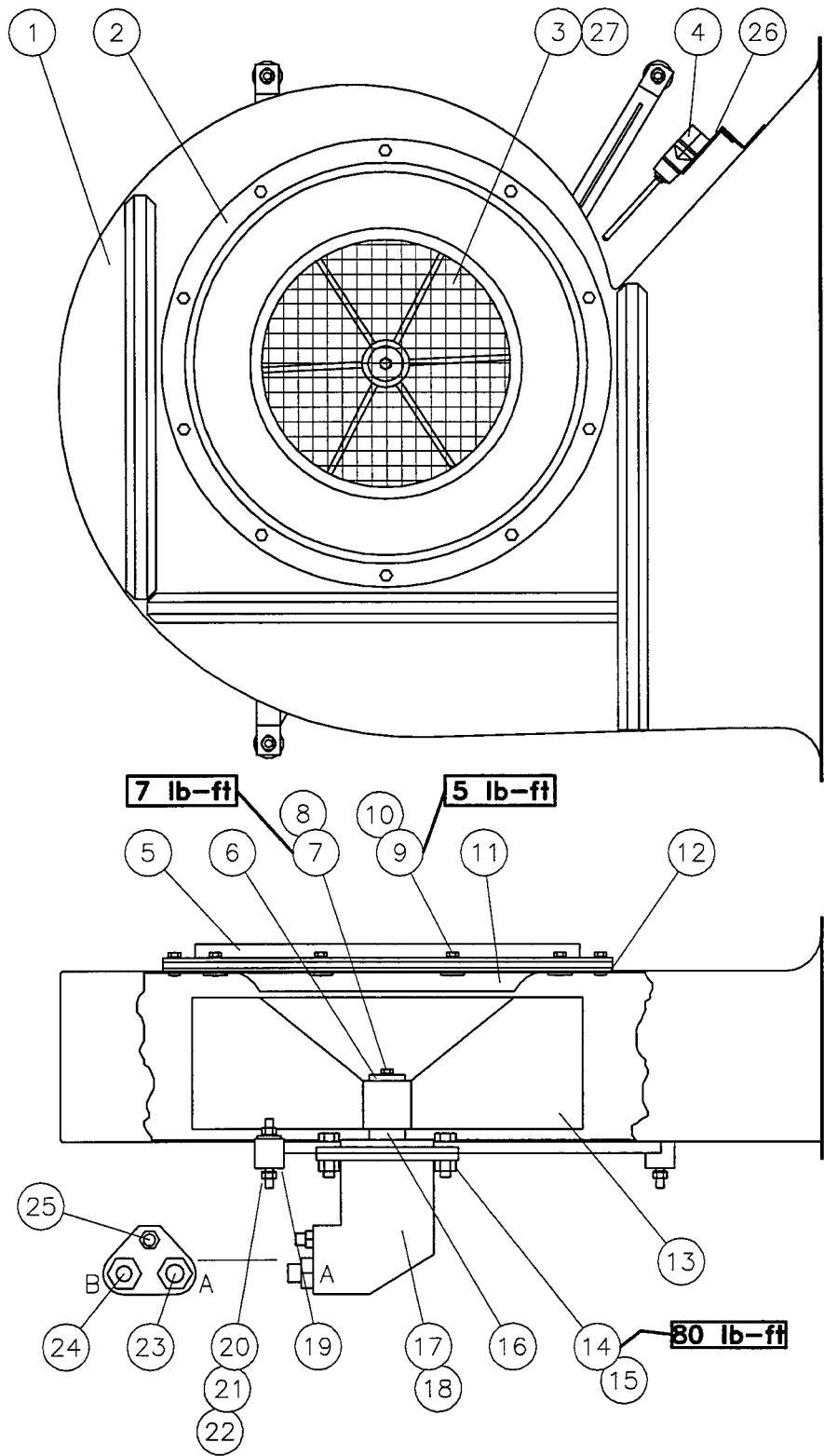
ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	23942	Container top door	1
2	28087	Container door gas spring	1
3		Screw round head square drive 1/4"-20 UNC X 1/2" Lg	2
4	28109	Container top door handle	1
5	28117	Container top door lock	1
6	27023	Seal container top	1
7		Screw hex. head 3/8"-16 UNC X 1 1/4" Lg	1
8		Washer Dia. 3/8"	1
9	21680	Rear mirror support	1
10		Screw hex. head 3/8"-16 UNC X 4 1/2" Lg	2
11	23886	Container hinge RH	1
	23885	Container hinge LH	1
12		Lock nut 3/8"-16 UNC	2
13	29085	Container hinge spacer	2
14		Lock nut 3/8"-16 UNC	1
15		Cutter pin	4
16	27522	Clevis pin dia. 1/2" X 2 3/4" Lg	4
17	27597	Grommet	2
18	27617	Liner snap pin	
19	23551	Container door liner	1
20	23470	Container liner	1
21		Pop rivet	17
22	29174	Container door dust cover	2
23		Grease fitting 1/4"-28 UNF	2
24		Screw hex. head 1/2"-20 UNF X 1 1/4" LG, TORQUE: 80 lb-ft	8
25		Lock washer Dia. 1/2"	8
26		Washer Dia. 1/2"	8
27	23915	Container door hinge	2
28		Washer Dia. 1/2"	1
29		Lock washer Dia. 1/2"	1
30		Screw hex. head 1/2"-20 UNF	1
31	23950	Spacer flap door	1
32	27619	Seal Container 5" Flap	1
33	23152	5" extension Flap	1
34		Screw hex. head 10-32 UNF X 3/4" Lg	2
35	27188	Extension flap hinge	1
36	29166	5" extension box (option)	1
	29148	8" extension box (option)	1
37		Screw hex. head 5/16"-18 UNC X 1" Lg (option)	3
38		Screw hex. head 5/16"-18 UNC X 2 1/2" Lg (option)	4
39		Washer Dia. 5/16" (option)	14
40	27765	Container extension box seal (option)	1
41	23893	Container door	1
42		Lock nut 5/16"-18 UNC	7
43	27015	Container door seal bottom	2
44	27007	Container door seal	1
45	27552	Plug button	2
46	25401	Fitting	4
47	25403	Fitting 90	4
48	23923	Container access door	2
49		Screw self tap hex. head 1/4"-20 UNC X 3/4" Lg	6
50		Washer Dia. 1/4"	6
51	25233	Clamp 29	2
52	24760	Container door cylinder	2
53	25047	Seal kit container door cylinder	
54	25398	Fitting 90	2
55	4242	Fitting	2
56	25400	Valve needle	2
57	4358	Fitting 90	2
58	23011	Container	1
59		Screw flat head square drive 10-32 UNF X 3/4" Lg	16
60		Container seal II	1
61	23516	Container seal ring	1
62		Screw hex. head 1/2"-20 UNF X 1 1/4" Lg, TORQUE: 80 lb-ft	8
63	27554	Convex mirror	1
64	23958	Container top door hinge spacer	2
65	28095	Container top door hinge	2
66		Screw flat head phillips drive 5/16"-18 UNC X 1"	6
67	29090	8" extension holder ass'y (option)	2
68		Lock nut 1/4-20 UNC	4

# CONTAINER LIFT ARM



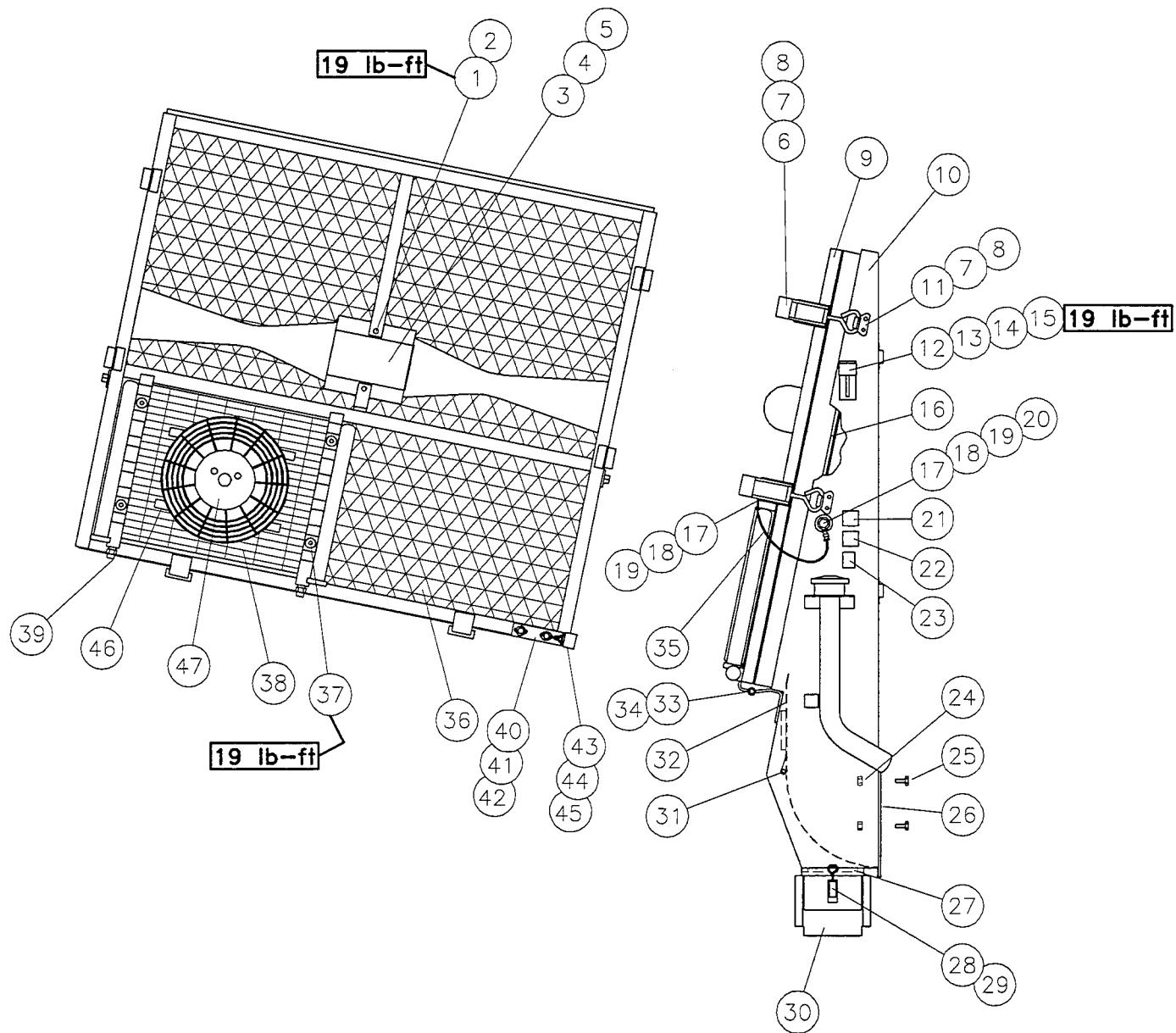
ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	25422	Fitting	2
2	25428	Fitting	2
3	25179	Fuse	2
4	23096	Lift Pivot Pin	4
5		Screw hex. head 5/16"-18 UNC X 1/2" Lg, TORQUE: 19 lb-ft	12
6		Lock washer Dia. 5/16"	12
7	25438	Fitting 90	2
8	24768	Container lift cylinder	2
9	25031	Seal kit container lift	
10	27465	Spherical ball bushing	8
11	25444	Fitting 90	6
12	23095	Lift pivot pin	6
13	28184	Lower lift arm bushing	4
14	28192	Upper lift arm ball bushing	2
15	23087	Upper Lift Arm	2
16	23079	Lower Lift Arm	1
17	28208	Lift cylinder safety stopper	2
18	27686	Decal - Stripped sticker	2
19	27522	Clevis pin Dia.1/2" X 2 3/4" Lg	2
20	27544	Hitch pin clip	2
21		Screw hex. head 3/8"-16 UNC X 1 3/4" Lg	8
22		Lock nut 3/8"-16 UNC	8
23	23109	Dump Cylinder Spacer (11 GA)	A/R
24	23110	Dump Cylinder Spacer (16 GA)	A/R
25	24752	Container dump cylinder	2
26	5338	Seal kit dump cylinder	
27	27759	Clamp 14	2
28		Screw self tap hex. head 1/4"-20 UNC X 3/4" Lg	2
29		Washer Dia. 1/4"	2
30	23097	Lift Pivot Pin	2
31	29034	Lower lift arm stopper	2
32		Screw flat head square drive 1/4"-20 UNC X 1 1/4" Lg	4

## FAN CASING



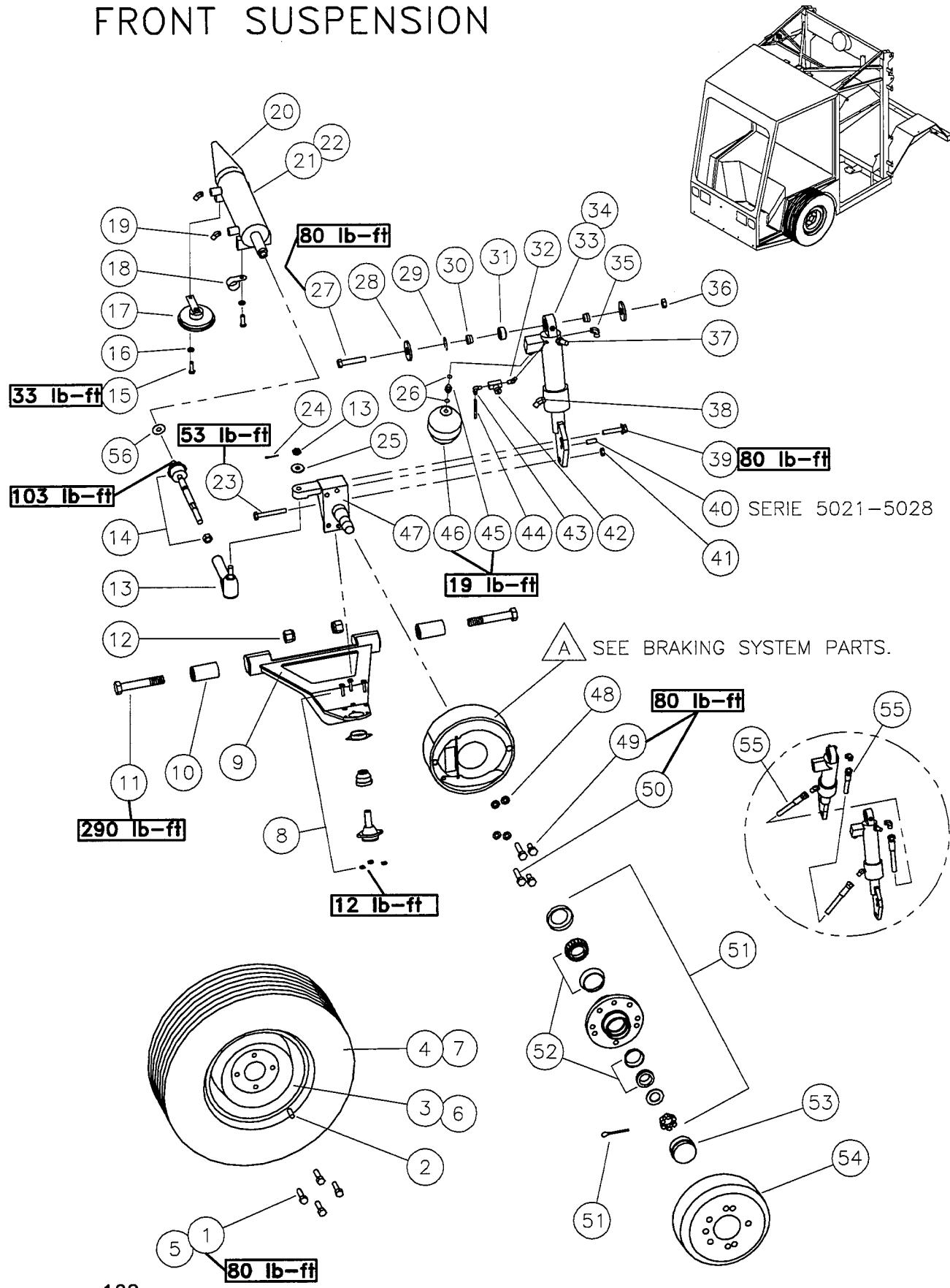
ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	23044	Fan casing	1
2	23494	Casing seal ring	1
3	23772	Air guide screen	1
4	6601	Switch (safety vacuum fan)	1
5	23158	Casing seal II	1
6	23656	Fan top plug	1
7		Screw hex head M6 X 35mm Lg, TORQUE: 7 lb-ft	1
8		Lockwasher Dia. 1/4"	1
9		Screw hex head 5/16"-18 UNC X 1" Lg, TORQUE: 5 lb-ft	10
10		Lockwasher Dia. 5/16"	10
11	23071	Fan casing air guide	1
12		Rubber band	1
13	23478	Fan	1
14		Screw hex.head 1/2"-13 UNC X 2" Lg, TORQUE: 80 lb-ft	2
15		Lock nut 1/2"-13 UNC	2
16	23648	Fan bushing	1
17	24006	Fan motor	1
18	25481	Fan motor seal kit	
19	27058	Rubber mount	3
20		Jam nut 5/16"-18 UNC	6
21		Lock washer Dia. 5/16"	6
22		Washer Dia. 5/16"	6
23	25446	Fitting A	1
24	4773	Fitting B	1
25	4285	Fitting	1
26	9791	Bracket alarm switch	1
27	29237	Trim, air guide screen	1

# VACUUM FILTER



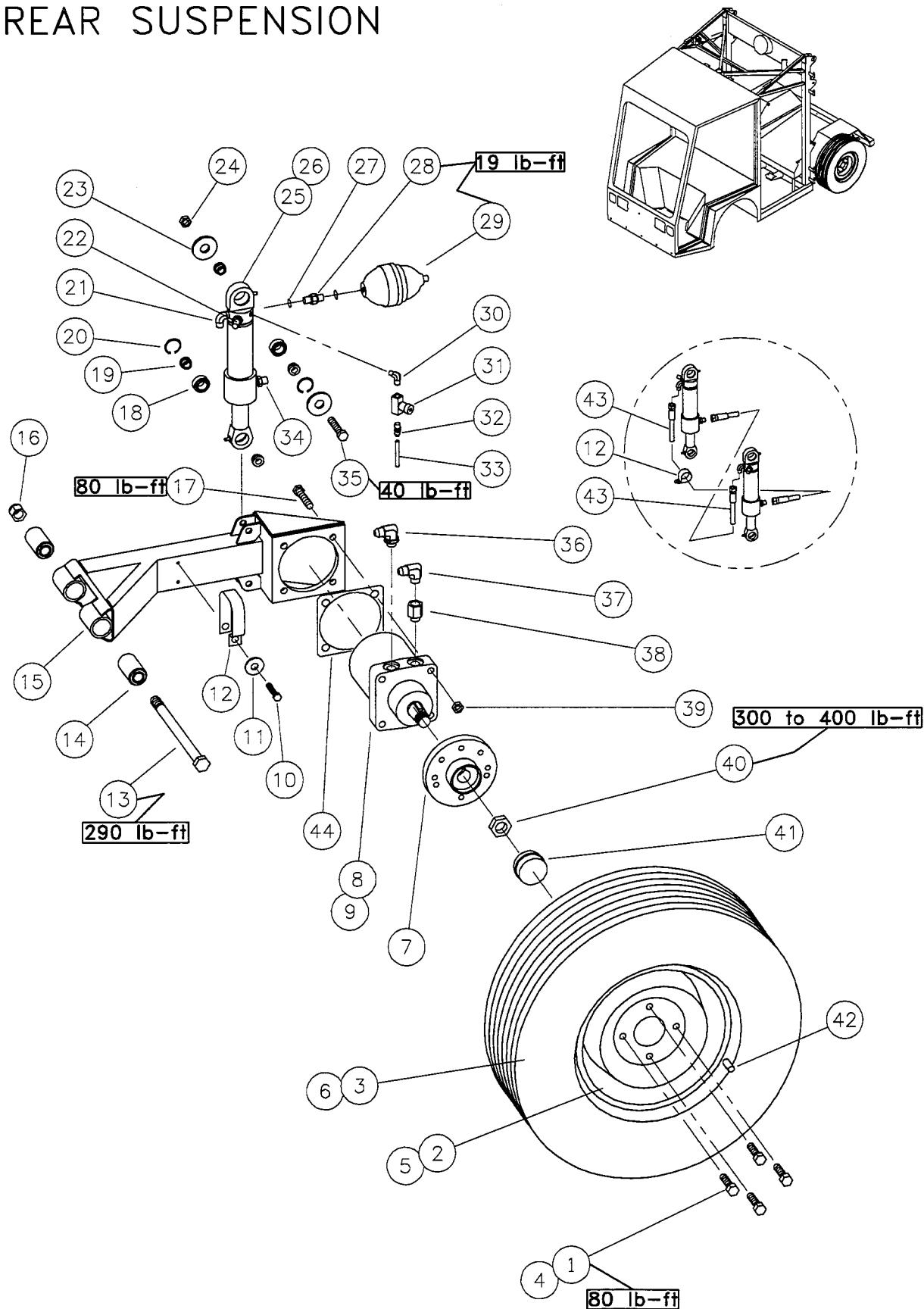
ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1		Screw hex. head 5/16"-18 UNC X 1/2" Lg, TORQUE: 19 lb-ft	2
2		Lock washer Dia. 5/16"	2
3	23292	Vibrator motor clamp	1
4	26335	Vibrating motor	1
5	23184	Eccentric weight	1
6	27560	Latch filter holder	4
7		Screw flat head square drive 10-32 UNF X 3/4" Lg	20
8		Lock nut 10-32 UNF	20
9	23966	Filter holder	1
10	23125	Filter duct	1
11	27579	Hook filter holder	4
12	27058	Rubber mount	2
13		Washer Dia. 5/16"	4
14		Lock washer Dia. 5/16"	4
15		Jam nut 5/16"-18 UNC, TORQUE: 19 lb-ft	4
16	27635	Seal filter	1
17		Screw hex. head 1/4"-20 UNC X 1" Lg	2
18		Lock nut 1/4"-20 UNC	2
19		Washer Dia. 1/4"	4
20		Washer Dia. 1/4" (3/8" BB)	1
21	8485	Decal-warning hydraulic pressure (filter duct)	1
22	8493	Decal- refueling safety (filter duct)	1
23	9228	Decal- Diesel fuel (filter duct)	1
24		Lock nut 1/4"-20 UNC	10
25		Screw hex. head 1/4"-20 UNC X 3/4" Lg	10
26	27641	Filter duct seal	1
27	27633	Seal dust bucket	1
28	27368	Latch	1
29		Pop rivet	2
30	23133	Dust Bucket	1
31	27581	Spring pin	2
32	23206	Dust Flap	1
33		Screw hex. head 7/16"-14 UNC X 5" Lg	2
34		Lock nut 7/16"-14 UNC	2
35	21548	Duct filter retaining cable	1
36	23265	Filter	1
37	27064	Oil cooler support kit, TORQUE (5/16"-18 UNC X 2" Lg): 19 lb-ft	2
38	5702	Hydraulic oil cooler	1
39	5788	Fitting	2
40	23395	Radiator stopper bracket	1
41		Screw soft tapping 1/4"-20 UNC X 1/2 Lg	2
42		Flat washer	2
43	27670	Rubber mount	1
44		Jam nut 5/16"-18 UNC	1
45		Lock washer 5/16	1
46	26653	Cooling fan 231 and brackets	1
47	9724	Cooling fan tie-rods	2

# FRONT SUSPENSION



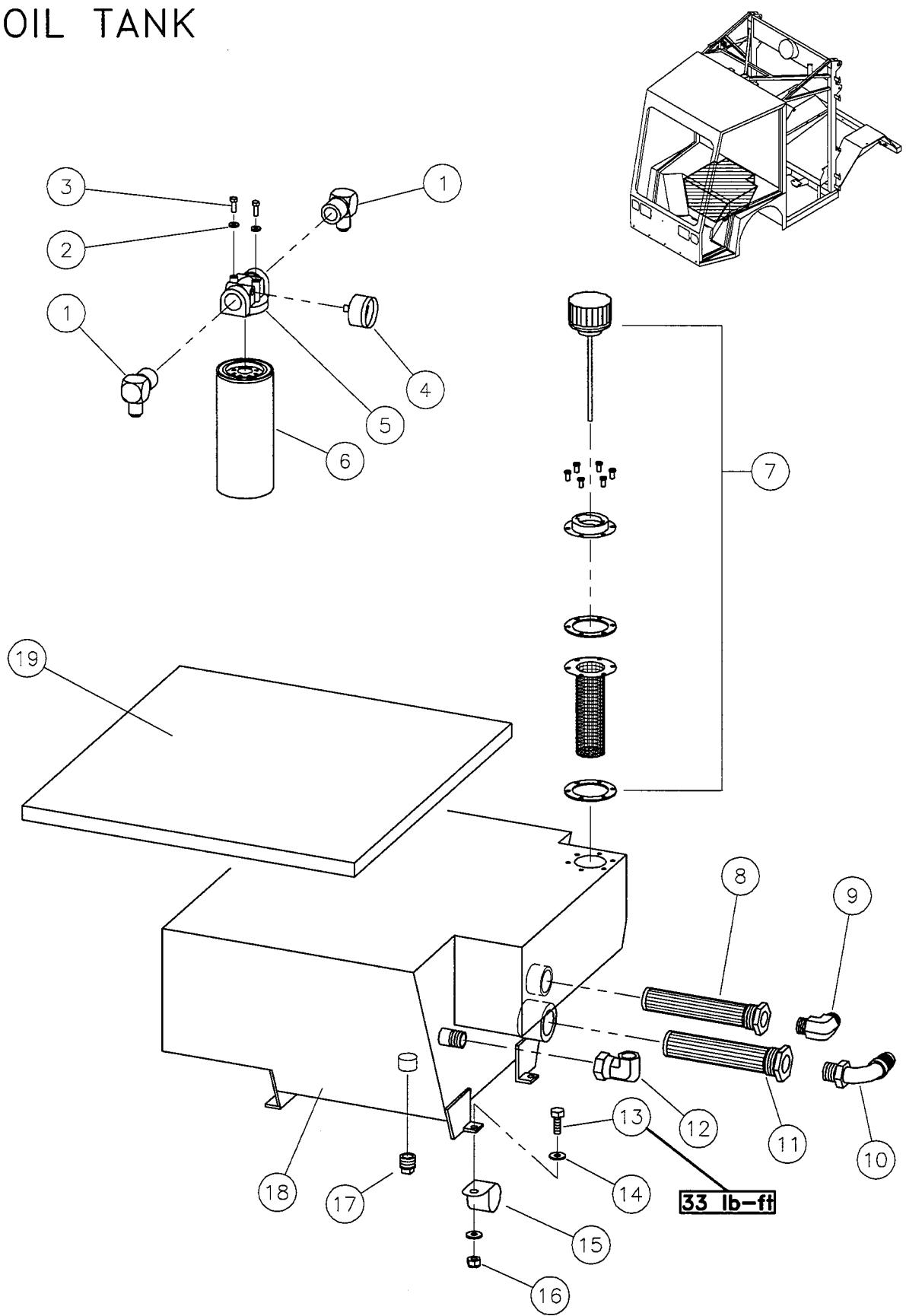
ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	27145	Wheel bolt 1/2"-20 UNF X 1 5/8" Lg(radial), TORQUE: 80 lb-ft	8
2	27587	Tire Valve	2
3	28283	Rim (radial)	2
4	28275	Tire (radial)	2
5	27145	Wheel bolt 1/2"-20 UNF X 1 5/8" Lg (Turf), TORQUE: 80 lb-ft	10
6	20046	Rim (Turf)	2
7	22054	Tire (Turf)	2
8	27013	Lower ball joint	2
		Screw hex. head 1/4"-20 UNC X 1" Lg, TORQUE: 14 lb-ft	6
		Lock washer Dia. 1/4"	6
		Lock nut 1/4"-20 UNC, TORQUE: 14 lb-ft	6
9	22219	Front suspension arm right	1
	22218	Front suspension arm left	1
10	27072	Bushing	4
11		Screw hex. head 3/4"-10 UNC 4 1/2" Lg, TORQUE: 290 lb-ft	4
12		Lock nut 3/4"-10 UNC	4
13	27021	Tie rod end & castle nut, TORQUE: 75 lb-ft	2
14	27005	Inner Socket & jam nut, TORQUE: M14 to Steering cyl.: 103 lb-ft	2
15		Screw hex. head 3/8"-16 UNC X 1" Lg, TORQUE: 33 lb-ft	4
16		Lock washer Dia. 3/8"	4
17	26084	Horn	1
18	25233	Clamp 29	1
19	4463	Fitting 45	2
20	22038	Steering cylinder boot	2
21	24776	Steering cylinder	1
22	25055	Seal kit steering cylinder	
23		Screw hex. head 7/16"-14 UNC X 2 3/4 Lg, TORQUE: 53 lb-ft	2
24		Cotter pin	2
25		Washer	2
26	25578	O' ring	4
27		Screw hex. head 1/2"-13 UNC X 2 1/2" Lg, TORQUE: 80 lb-ft	2
28	22180	Strut Rubber washer	4
29	27463	Retaining ring	2
30	22099	Strut spacer	4
31	27465	Spherical ball bushing	2
32	24065	Fitting 45	2
33	24814	Front strut left	1
	24806	Front strut right	1
34	25096	Seal kit front strut	
35	25562	Fitting 90	2
36		Lock nut 1/2"-13 UNC, TORQUE: 80 lb-ft	2
37	25568	Quick coupler male	2
38	25570	Fitting 45	2
39	29231	Screw hex. whiz lock 1/2"-13 UNC X 1 1/2" Lg, TORQUE: 80 lb-ft	2
40		Spring pin Dia. 3/8"	2
41		Lock nut 7/16"-14 UNC, TORQUE: 53 lb-ft	2
42	25400	Valve needle	2
43	24075	Fitting 90	2
44	25320	Hose bleed	2
45	25339	Fitting, TORQUE: 19 lb-ft	2
46	25128	Accumulator front, TORQUE: 19 lb-ft	2
47	22030	Knuckle Left	1
	22031	Knuckle Right	1
48		Lock washer Dia. 1/2"	8
49		Screw hex. head 1/2"-13 UNC X 1" Lg, TORQUE: 80 lb-ft	4
50		Screw hex. head 1/2"-13 UNC X 1 1/4" Lg, TORQUE: 80 lb-ft	4
51	22234	Front wheel hub ass'y	2
52	9708	Bearings tapered roller and cups kit	2
53	27139	Dust cap	2
54	22277	Front wheel drum	2
55	24067-L	Hose front suspension	2
56	29180	Connecting Washer	2

## REAR SUSPENSION



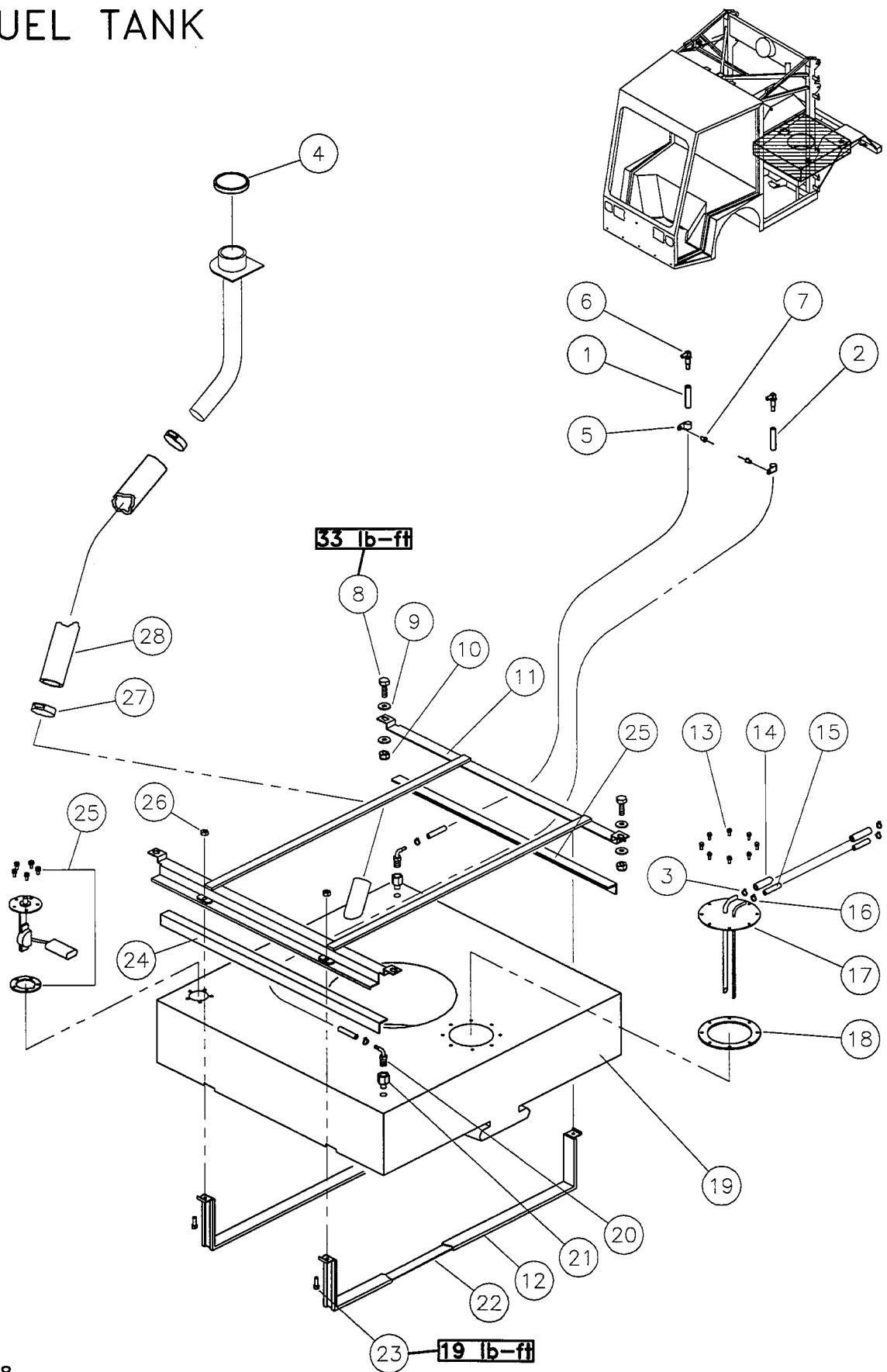
ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	27145	Wheel bolt 1/2"-20 UNF X 1 5/8" Lg(radial), TORQUE: 80 lb-ft	8
2	28283	Rim (radial)	2
3	28275	Tire (radial)	2
4	27145	Wheel bolt 1/2"-20 UNF X 1 5/8" Lg (Turf), TORQUE: 80 lb-ft	10
5	20046	Rim (Turf)	2
6	22054	Tire (Turf)	2
7	22013	Rear hub	2
8	25142	Wheel motor	2
9	5311	Wheel motor seal kit	
10		Screw self tap hex. head 1/4"-20 UNC X 3/4" Lg	2
11		Washer Dia. 1/4"	2
12	25233	Clamp 29	7
13		Screw hex. head 3/4"-10 UNC X 11" Lg, TORQUE: 290 lb-ft	2
14	27072	Bushing	4
15	22005	Rear suspension arm	2
16		Lock nut 3/4"-10 UNC	2
17		Screw hex. head 1/2"-13 UNC X 2 3/4" Lg, TORQUE: 80 lb-ft	8
18	27465	Spherical ball bushing	4
19	22099	Strut spacer	8
20	27463	Retaining ring	4
21	25562	Fitting 90	2
22	25568	Quick coupler male	2
23	22180	Strut Rubber washer	4
24		Lock nut 1/2"-13 UNC	2
25	24784	Rear strut left	1
	24849	Rear strut right	1
26	25118	Seal kit rear strut	
27	25578	O'ring	4
28	25339	Fitting, TORQUE: 19 lb-ft	2
29	25126	Accumulator rear, TORQUE: 19 lb-ft	2
30	4358	Fitting 90	2
31	25112	Valve needle	2
32	24235	Fitting	2
33	25320	Hose bleed	2
34	25576	Fitting	2
35		Screw hex. head 1/2"-13 UNC X 2 1/2" Lg, TORQUE: 40 lb-ft	4
36	4528	Fitting 90	2
37	4749	Fitting 90 (serie 5001-5042)	2
	4439	Fitting 90 (serie 5043+)	2
38	4935	Fitting (serie 5001-5042)	2
	24405	Fitting (serie 5043+)	2
39		Lock nut 1/2"-13 UNC	4
40		Nut, TORQUE: 300 to 400 lb-ft	2
41	27139	Dust cap	2
42	27587	Tire Valve	2
43	24102-L	Hose rear suspension	2
44	22062	Wheel motor spacer 11 Ga	A/R

# OIL TANK



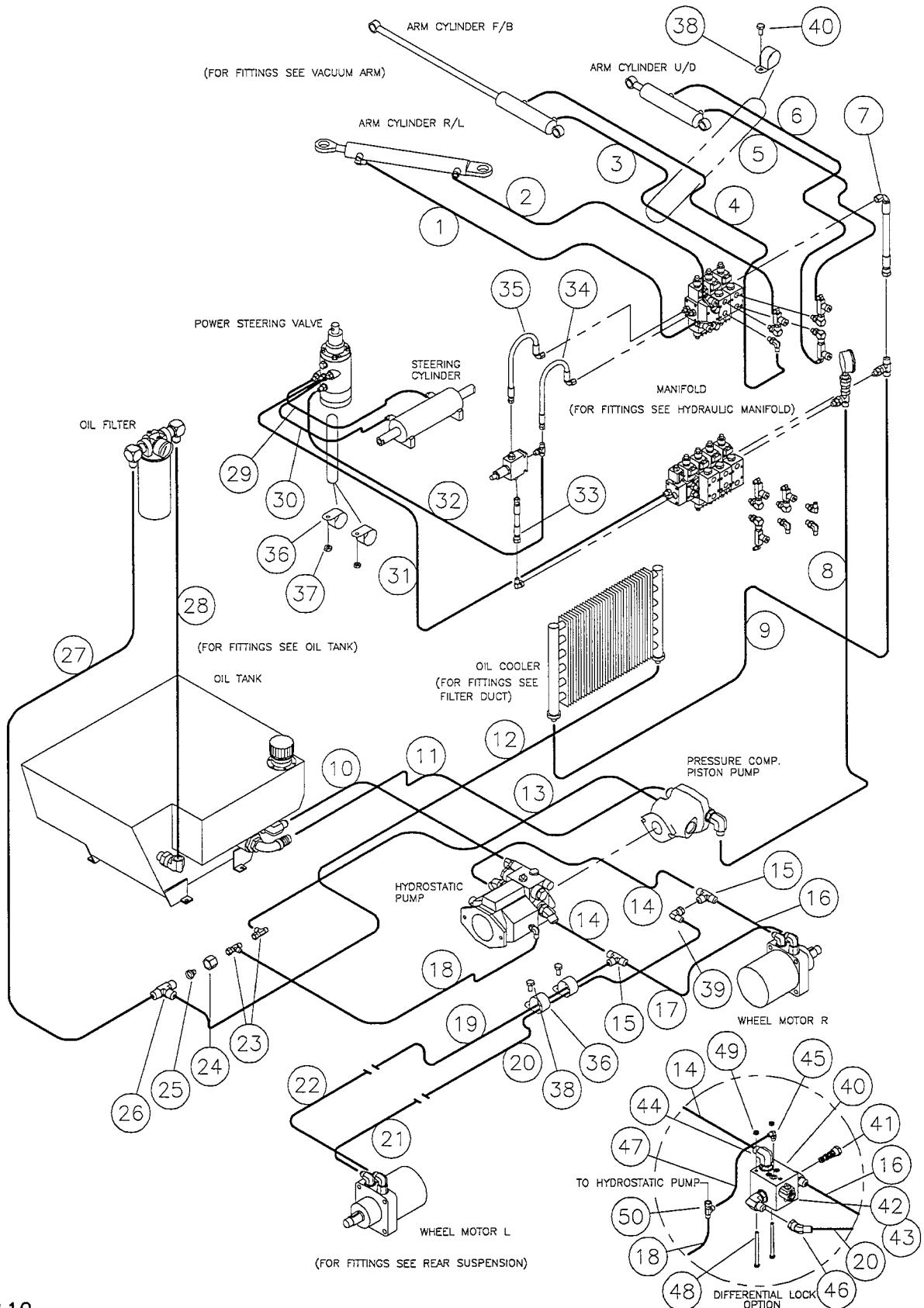
ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	25357	Fitting 90	2
2		Lock washer Dia. 1/4"	2
3		Screw hex. head 1/4"-20 X 3/4" Lg	2
4	25314	Oil filter gauge	1
5	24049	Oil filter holder	1
6	25120	Hydraulic filter element	1
7	24057	Filler-breather	1
8	5389	Tank mounted strainer	1
9	4374	Fitting 90	1
10	25363	Fitting 90	1
11	24022	Tank mounted strainer	1
12	25365	Fitting 90	1
13		Screw hex. head 3/8"-16 UNC X 1 1/4" Lg, TORQUE: 33 lb-ft	4
14		Washer Dia. 3/8"	8
15	25233	Clamp 29	1
16		Lock nut 3/8"-16 UNC	4
17	5230	Plug oil tank	1
18	21114	Oil tank 231	1
19	27457	Insulation fiberglass	1

# FUEL TANK



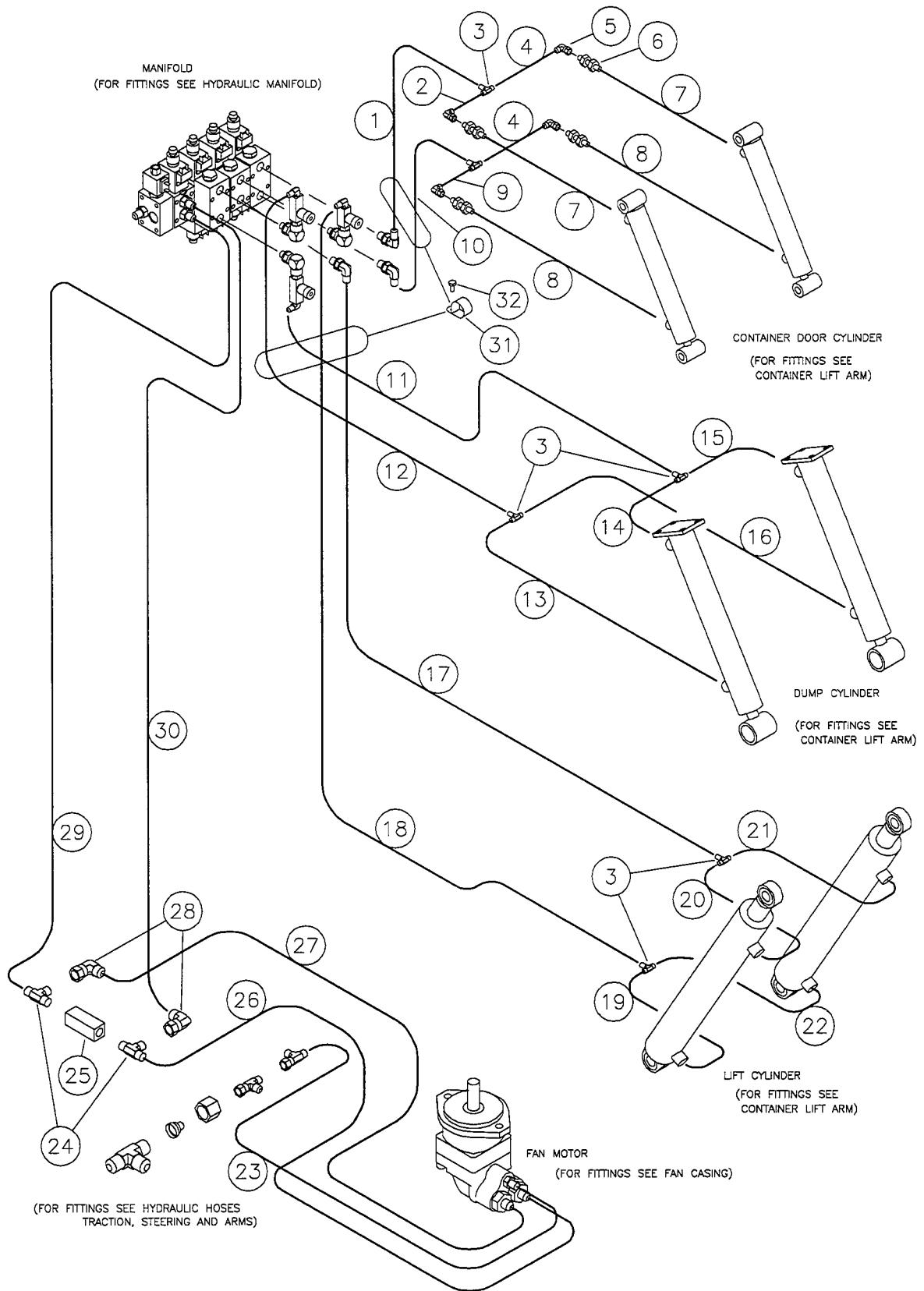
ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	25276	Hose vent front 5/16"	1
2	25274	Hose vent rear 5/16"	1
3	27589	Clamp	4
4	28052	Fuel Cap	1
5	25312	Clamp (plastic)	4
6	8051	Fitting 90 (plastic)	2
7		Pop rivet	4
8		Screw hex. head 3/8"-16 UNC X 1" Lg, TORQUE: 33 lb-ft	4
9		Washer Dia. 3/8"	8
10		Lock nut 3/8"-16 UNC	4
11	21198	Fuel tank supporting beam	1
12	27684	Rubber strap	4
13		Screw hex. head 10-32 UNF X 1/2" Lg	8
14	25282	Hose tank to filter	1
15	25284	Hose return	1
16	27662	Clamp	2
17	21220	Tank lid 231	1
18	27609	Rubber gasket	1
19	21171	Fuel tank 231	1
20	25347	Fitting 90	2
21	25349	Fitting	2
22	21163	Tank strap	2
23		Screw hex. head 5/16"-18 UNC X 1 1/4" Lg, TORQUE: 19 lb-ft	4
24	27714	Rubber strap, fuel tank beam	2
25	26396	Fuel sender	1
26		Jam nut 5/16"-18 UNC	4
27	9546	Hose clamp 2"	2
28	25306	Hose (fuel filler)	1

# HYDRAULIC HOSES (TRACTION, STEERING AND ARM)



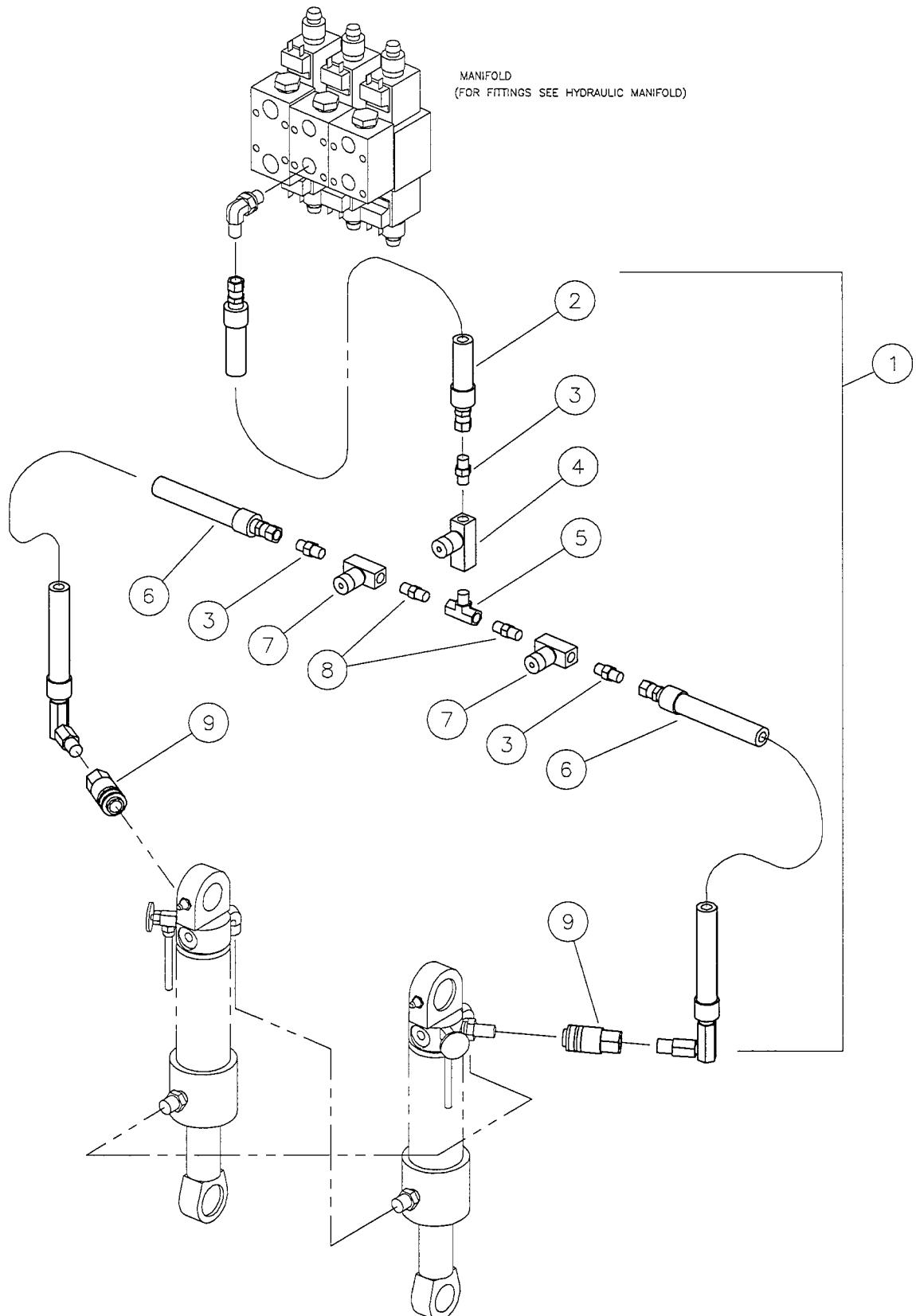
ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	24310	Hose assembly	1
2	24288	Hose assembly	1
3	24334	Hose assembly	1
4	24337	Hose assembly	1
5	24318	Hose assembly	1
6	24393	Hose assembly	1
7	24407	Hose assembly	1
8	24164	Hose assembly	1
9	24191	Hose assembly	1
10	24450	Hose assembly	1
11	24695	Hose assembly	1
12	24199	Hose assembly	1
13	24423	Hose assembly	1
14	24016	Hose assembly	2
15	4269	Fitting T	2
16	24413	Hose assembly	1
17	24421	Hose assembly	1
18	24415	Hose assembly	1
19	24383	Hose assembly	1
20	24051	Hose assembly	1
21	24367	Hose assembly	1
22	24375	Hose assembly	1
23	24081	Fitting T	2
24	24103	Fitting	1
25	24111	Fitting	1
26	24130	Fitting T	1
27	24229	Hose assembly	1
28	24221	Hose assembly	1
29	24280	Hose assembly	1
30	24272	Hose assembly	1
31	24442	Hose assembly	1
32	24113	Hose assembly	1
33	24237	Hose assembly	1
34	24253	Hose assembly	1
35	24245	Hose assembly	1
36	25233	Clamp 29	5
37		Lock nut 1/2"-13 UNC	2
38		Screw self tap hex. head 1/4"-20 UNC X 3/4" Lg	3
39	24391	Fitting 90	1
40	24340	Valve differential lock	1
41	24464	Diff. lock divider / combiner cartridge	1
42	24448	Diff. lock solenoid	1
43	24456	Diff. lock solenoid valve	1
44	4390	Fitting 90	3
45	4412	Fitting 90	1
46	24359	Fitting 45	1
47	24472	Hose assembly	1
48		Screw hex. head 5/16"-18 UNC X 4 1/2" Lg	2
49		Lock nut 5/16"-18 UNC	2
50	25193	Fitting	1

# HYDRAULIC HOSES (VACUUM AND CONTAINER)



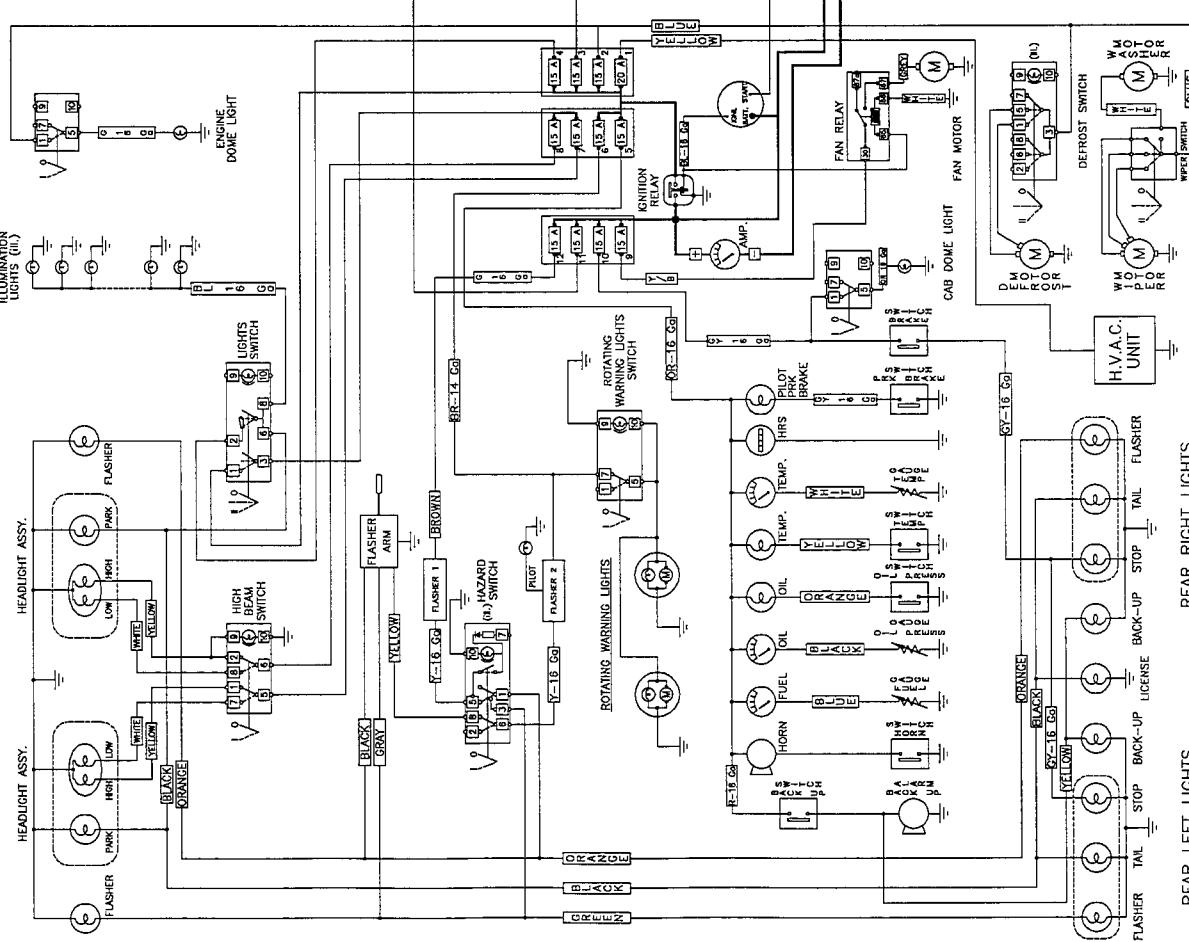
ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	24636	Hose assembly	1
2	24563	Hose assembly	1
3	24146	Fitting T	6
4	24539	Hose assembly	2
5	25403	Fitting 90	4
6	25401	Fitting	4
7	24504	Hose assembly	2
8	24474	Hose assembly	2
9	24555	Hose assembly	1
10	24628	Hose assembly	1
11	24369	Hose assembly	1
12	24361	Hose assembly	1
13	24644	Hose assembly	1
14	24612	Hose assembly	1
15	24582	Hose assembly	1
16	24590	Hose assembly	1
17	24385	Hose assembly	1
18	24326	Hose assembly	1
19	24671	Hose assembly	1
20	24679	Hose assembly	1
21	24620	Hose assembly	1
22	24598	Hose assembly	1
23	24296	Hose assembly	1
24	24154	Fitting T	2
25	24162	Valve check	1
26	24466	Hose assembly	1
27	24083	Hose assembly	1
28	24170	Fitting 90	2
29	24059	Hose assembly	1
30	24458	Hose assembly	1
31	25233	Clamp 29	1
32		Screw self tap hex. head 1/4"-20 UNC X 3/4" Lg	1

# SUSPENSION LEVELING HOSE KIT

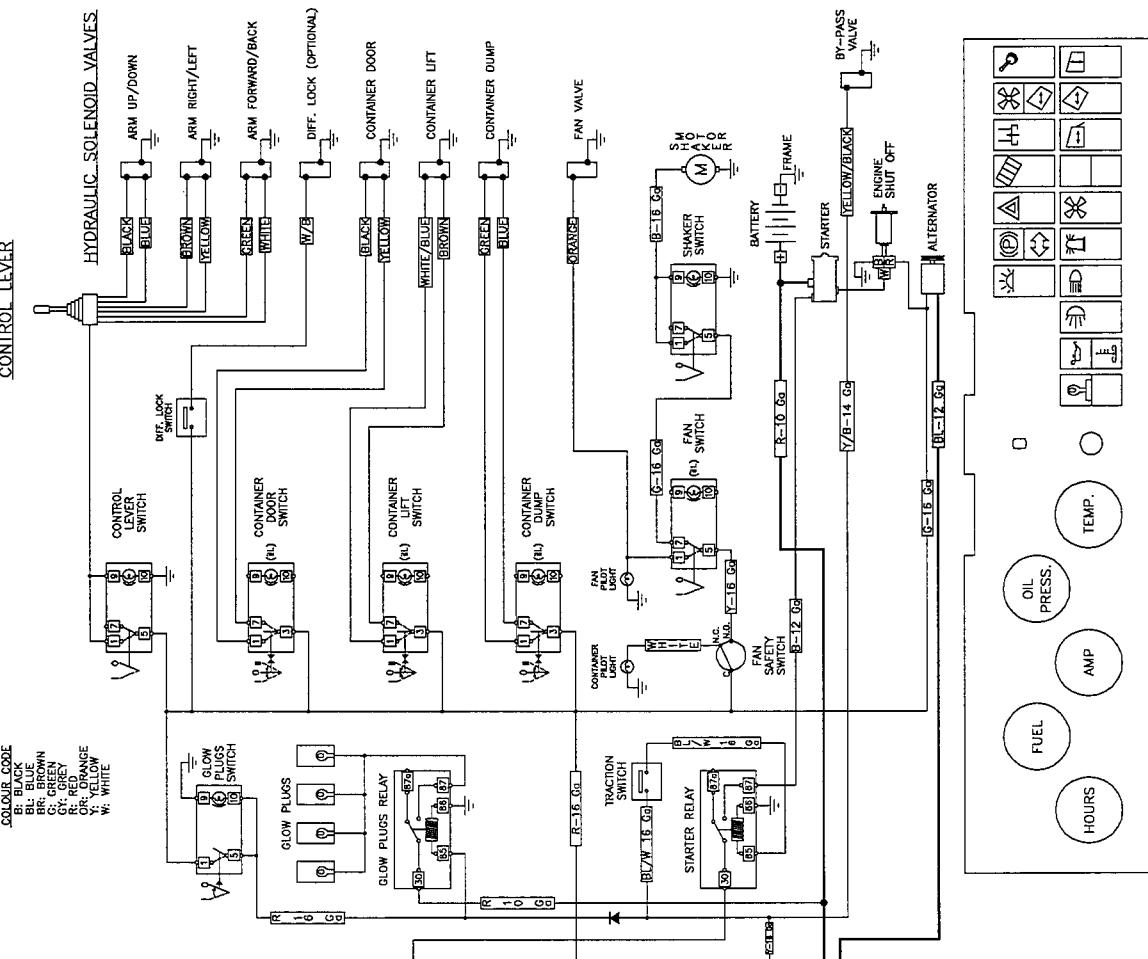


ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	24294	Hose suspension leveling kit ass'y	1
2	24278	Hose assembly	1
3	4242	Fitting	3
4	25098	Valve flow control	1
5	24189	Fitting T	1
6	24286	Hose assembly	2
7	25112	Valve needle	2
8	24197	Fitting	2
9	24200	Quick coupling	2

FRONT LEFT LIGHTS      FRONT RIGHT LIGHTS



## ONT RIGHT LIGHTS

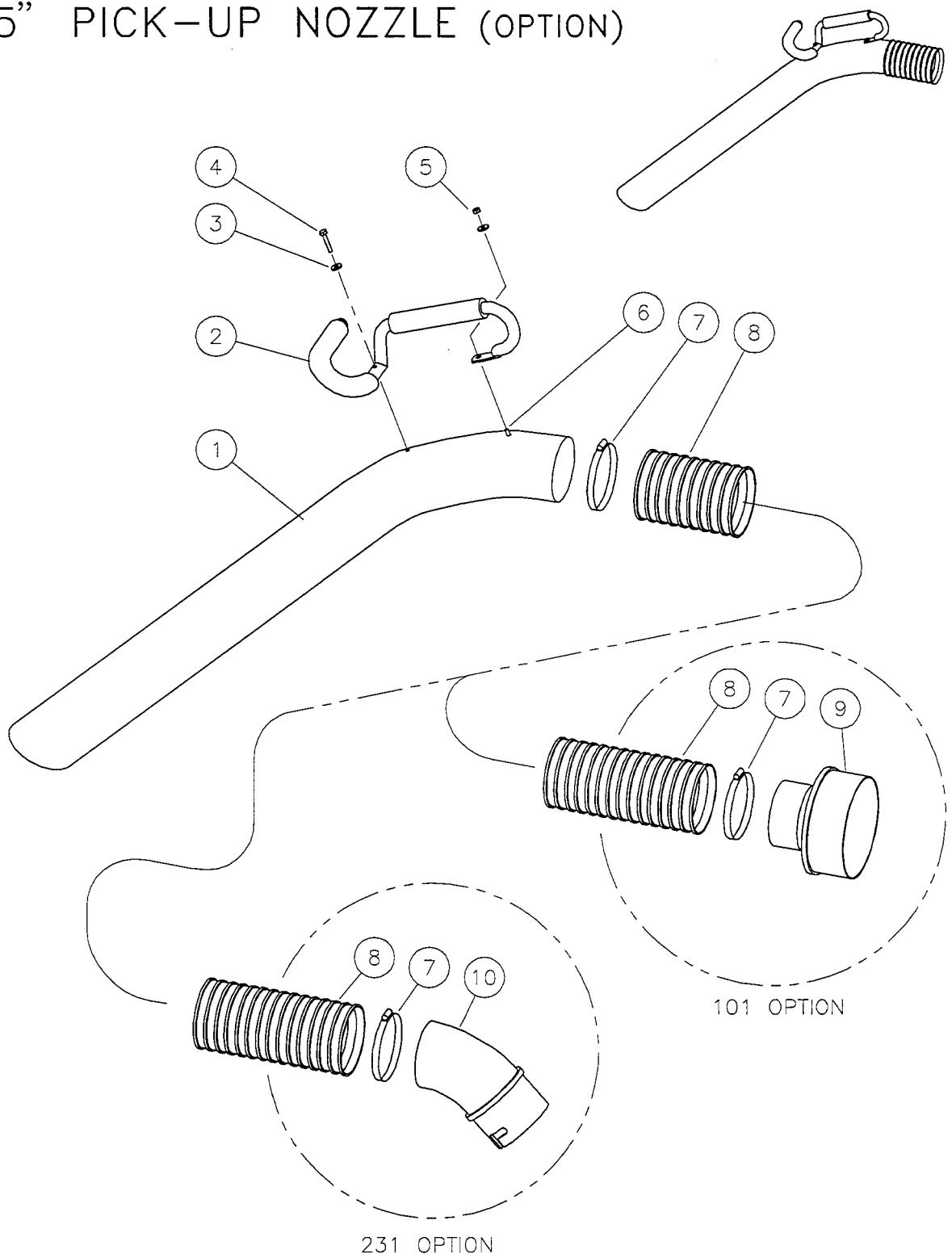


COLOUR CODE

B: BLACK
BL: BLUE
BR: BROWN
C: GREEN
GY: GREY
R: RED
OR: ORANGE
Y: YELLOW
W: WHITE

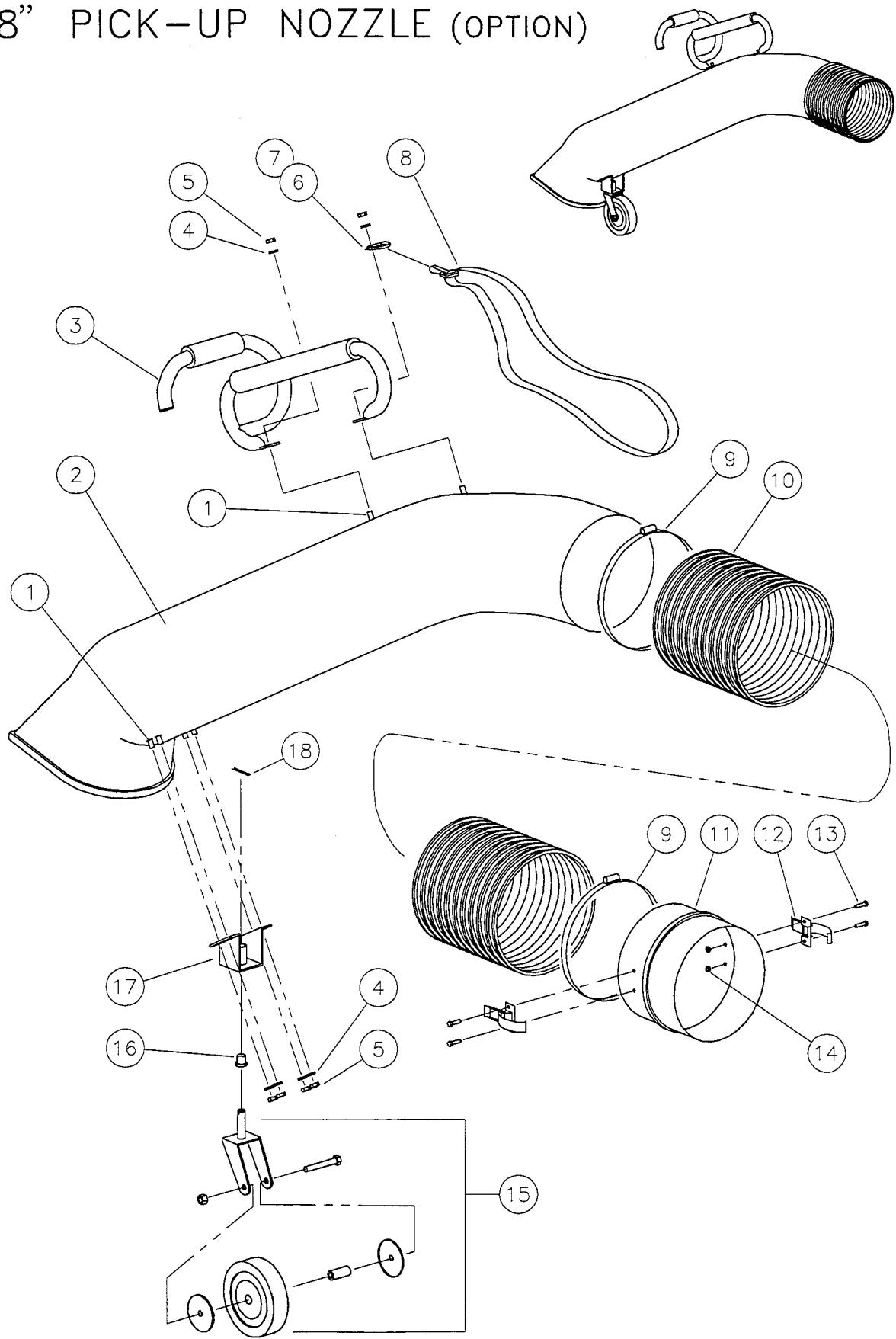
ITEM	PART NUMBER	DESCRIPTION	QUANTITY
	6040	Automotive relay	3
	6628	Back-up alarm	1
	26070	Back-up light	2
	6393	Battery	1
	6369	Battery boot	1
	26213	Battery ground cable	1
	26211	Battery positive cable	1
	26203	Blank dash covers	1
	26232	Defrost fan	1
	6032	Diode	1
	6563	Dome light ( <i>inside cab &amp; engine compartment</i> )	2
	26394	Engine ground cable	1
	6210	Flasher arm	1
	6229	Flasher unit	1
	26300	Front flasher	2
	6075	Fuel gauge	1
	26396	Fuel sender	1
	26418	Fuse block c/p	1
	6326	Fuses 15 Amps	11
	6636	Fuses 20 Amps	1
	6067	Gauge ammeter	1
	26041	Gauge illuminating light	5
	26068	Hand brake switch	1
	26084	Horn 12V , 400HZ	1
	6059	Hourmeter gauge	1
	6105	Ignition switch & key	1
	26337	Joy stick	1
	26270	LIGHT ( back-up light )	2
	26254	LIGHT ( head light)	2
	26289	LIGHT ( licence plate )	2
	26262	LIGHT ( tail light )	6
	26264	LIGHT ( tail light X1)	2
	26256	LIGHT (front parking)	2
	26291	LIGHT (rot. light replacement)	2
	26580	Light pilot Fan and container	1
	26599	Light pilot Oil and temperature	1
	26574	Light pilot Parking and flasher	1
	6557	Oil pressure gauge	1
	26043	Oil pressure sender	1
	26011	Oil pressure switch	1
	26416	Solenoid	1
	26556	Switch & symbol Beacon	1
	26564	Switch & symbol Container door	1
	26572	Switch & symbol Container lift	1
	26566	Switch & symbol Container tilt	1
	26558	Switch & symbol Defrost fan	1
	26507	Switch & symbol Dome light	1
	26542	Switch & symbol Glow plugs	1
	26513	Switch & symbol Hazards	1
	26548	Switch & symbol Head lights	1
	26550	Switch & symbol High beam	1
	26523	Switch & symbol Joy stick	1
	26515	Switch & symbol Shaker	1
	26521	Switch & symbol Vacuum	1
	26661	Switch & symbol Differential Lock (option)	1
	26345	Switch (engine compartment light)	1
	26062	Switch Back-up & neutral	2
	26408	Switch Brake light	1
	26033	Switch Wiper	1
	6520	Temperature sender	1
	26378	Temperature switch	1
	6512	Gauge Water Temperature	1

## 5" PICK-UP NOZZLE (OPTION)



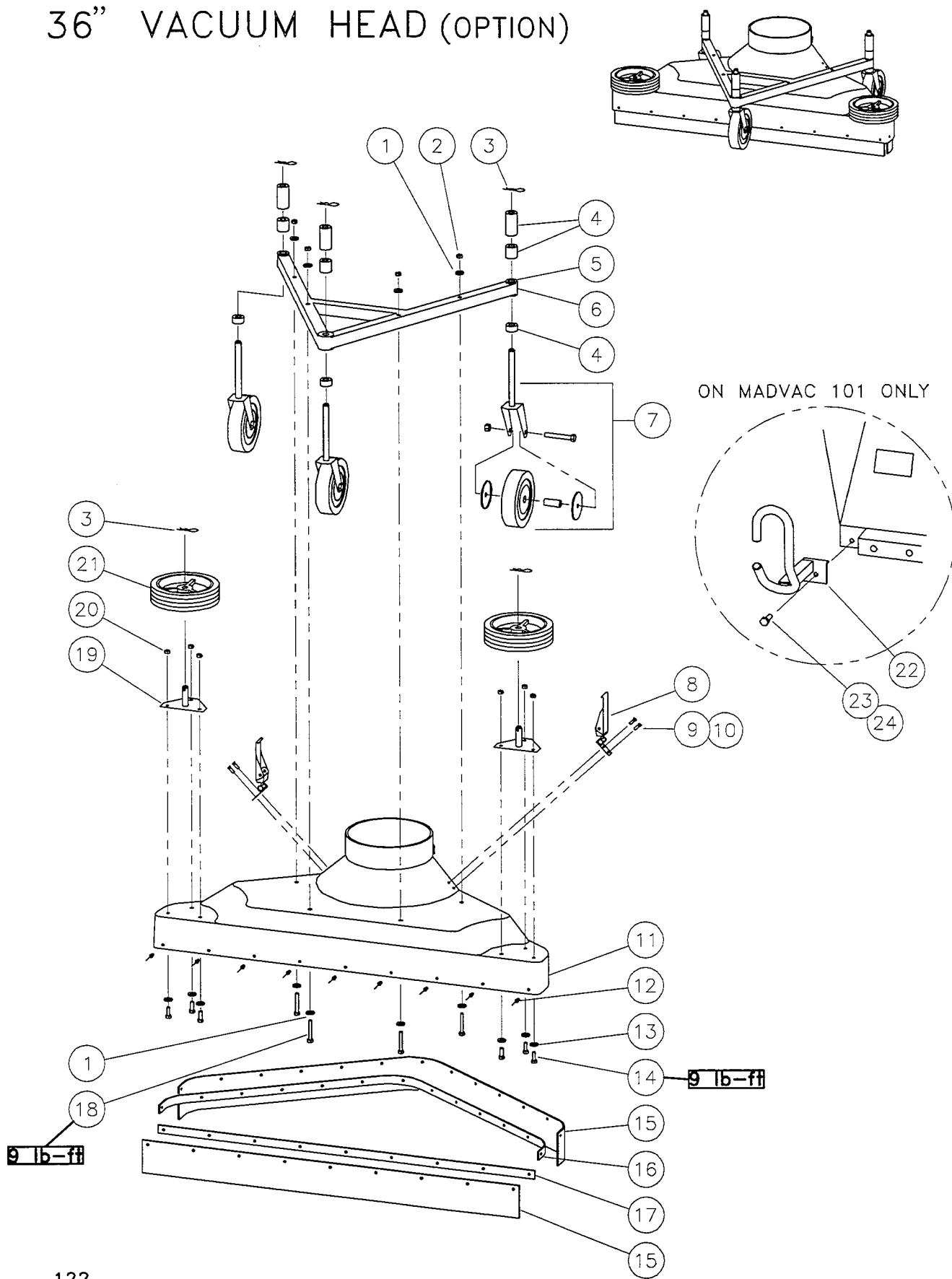
ITEM	PART NUMBER	DESCRIPTION	QUANTITY
	3424	15' Extension and 5" Pick-Up Nozzle for 101	
	29086	25' Extension and 5" Pick-Up Nozzle for 231	
1	3440	Dia 5" pick-up nozzle	1
2	29069	Dia 5" pick-up nozzle handle	1
3		Washer	2
4		Screw hex. head 1/4"-20 UNC X 1 1/2" Lg	1
5		Lock nut 1/4"-20 UNC	1
6		Carriage bolt 1/4"-20 UNC X 3/4" Lg	1
7	8566	Clamp	2
8	8558	Hose 5" (101)	1
	28397	Hose 5" (231)	1
9	3432	8" to 5" reducer	1
10	23168	5" extension Adaptor	1

## 8" PICK-UP NOZZLE (OPTION)



ITEM	PART NUMBER	DESCRIPTION	QUANTITY
	29017	18 ft Extension and 8" Pick-Up Nozzle	
	28354	18 ft Extension and 8" Pick-Up Nozzle with rack	
1		Carriage bolt 5/16"-18 UNC X 3/4" Lg	6
2	29018	Dia 8" pick-up nozzle	1
3	29077	Dia 8" pick-up nozzle handle	1
4		Washer	6
5		Lock nut 5/16"-18 UNC	6
6	8582	D-ring	1
7	8337	D-ring clip	1
8	8590	Shoulder strap	1
9	8507	Clamp	2
10	27050	Hose 8"	1
11	13092	dia 8" to dia 8" coupler	1
12	7497	Clamp (hood clamp)	2
13		Screw hex. head 10-32 UNF X 3/4" Lg	4
14		Lock nut 10-32 UNF	4
15	29164	Wheel caster ass'y	1
16	27692	Bushing (bronze)	1
17	29123	Dia 8" nozzle wheel support	1
18	27544	Hitch pin clip	1

## 36" VACUUM HEAD (OPTION)



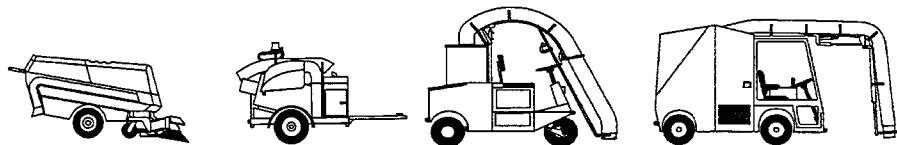
ITEM	PART NUMBER	DESCRIPTION	QUANTITY
	23973	36" Vacuum Head Ass'y	
1		Washer	8
2		Lock nut 1/4"-20 UNC	4
3	27544	Hitch pin clip	5
4	29150	Wheel spacer kit (1/2", 1", 2")	3
5	27692	Bushing (bronze)	3
6	29107	36" nozzle support	1
7	29156	Wheel caster ass'y (36" nozzle)	3
8	27694	Latch	2
9		Screw flat head square drive 6-32 UNC X 3/4 Lg	4
10		Lock nut 6-32 UNC	4
11	23974	36" suction nozzle	1
12		Pop rivet	22
13		Washer	6
14		Screw hex. head 1/4"-20 UNC X 3/4" Lg, TORQUE: 9 lb-ft	6
15	27706	Rubber lips kit	1
16	23166	Contour lip holder	1
17	23160	Front lip holder	1
18		Screw hex. head 1/4"-20 UNC X 1 3/4" Lg , TORQUE: 9 lb-ft	4
19	29201	Side wheel axle	2
20		Lock nut 1/4"-20 UNC	6
21	27708	Wheel (side)	2
22	11065	Arm holder for Madvac 101 only	1
23		Screw hex. head 1/4"-20 UNC X 1 1/4" Lg	1
24		Lock nut 1/4"-20 UNC	1

# 10 INDEX

I	PAGE	S	PAGE
Introduction .....	1	Safety .....	2
		Battery Safety .....	6
		General Safety .....	3
		Hydraulic Safety .....	4
		Maintenance Safety .....	5
		Operating Safety .....	4
		Refueling Safety .....	6
		Safety Signs .....	6
		Sign-Off Form .....	7
		Storage Safety .....	6
		Tire Safety .....	5
		Transport Safety .....	5
Operation .....	10	Safety Sign Locations .....	8
Controls .....	13	Service and Maintenance .....	27
Engine Compartment .....	19	Adjustments .....	45
Lower Cab Instruments .....	17	Brake Adjustment .....	46
Upper Cab Instrument Panel .....	13	Electrical System .....	45
Emptying The Container .....	24	Engine Speed Settings .....	48
How The Machine Works .....	11	Intake Tube Lift Speed .....	45
Machine Break-In .....	12	Intake Tube Replacement .....	48
Operating .....	21	Neutral Position and Neutral Start Adj. ....	47
Pre-Operation Checklist .....	12	Pedal Angle Adjustment .....	46
Starting .....	20	Maintenance .....	39
Stopping .....	21	Air Cleaning Maintenance .....	40
Storage .....	26	Cleaning Dust Screen .....	44
Placing In Storage .....	26	Cleaning Engine and Compartment .....	41
Removing From Storage .....	26	Changing Hydraulic Oil .....	43
To the New Operator or Owner .....	10	Control Cable Lubrication .....	43
Transporting .....	25	Engine Oil and Filter Changing .....	39
Options .....	49	Fuel Filter .....	40
Differential Lock .....	49	Hydraulic Oil Filter Changing .....	42
15 Foot Extension Inlet .....	49	Hydraulic System Testing .....	44
36 Inch Vacuum Head .....	49	Service .....	27
		Fluids and Lubricants .....	27
		Greasing .....	28
		Service Record .....	38
		Servicing Intervals .....	29
		Towing .....	48
Specifications .....	52		
		Bolt Torque .....	58
		Electrical 231D Diesel .....	54
		Hydraulic Schematic .....	56
		Mechanical .....	52
		Troubleshooting .....	50

# **MADVAC**

**INCORPORATED**



**The World's Best Litter Collection System**

## **Madvac Incorporated**

1690, Eiffel  
Boucherville, Quebec  
Canada, J4B 7W1  
**Tel: (450) 616-8100**  
**Toll Free: 1-866-462-3822**  
**Fax: (450) 616-8103**

**Internet Site: [www.madvac.com](http://www.madvac.com)**  
**E-mail address: [tech-support@madvac.com](mailto:tech-support@madvac.com)**